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EXISTING UTILITIES

UTILITY LOCATIONS

STATE ROUTE NO: I-90 MP 82.8 TO MP 84.4

BEG. MP	END MP	LT/RT/XING	AERIAL/BURIED - DESCRIPTION
HOLDER: CITY OF CLE ELUM			
83.5	83.5	XING	BURIED - (1) 12" DUCTILE IRON WATER MAIN IN 30" STEEL CASING
83.5	83.5	XING	BURIED - (2) 18" DUCTILE IRON WATER MAINS IN 30" STEEL CASINGS
83.5	83.5	XING	BURIED - 6" DUCTILE IRON FORCEMAIN SEWER LINE
84.18	84.18	XING	BURIED - 2" PE SEWER LINE IN 2.5" GALV. CASING IN 12" CONC. PIPE
84.18	84.18	XING	BURIED - 8" HDPE WATER LINE IN 12" CONC. PIPE
HOLDER: CENTURYLINK			
83.6	83.6	XING	BURIED - 12 FIBER OPTIC CABLE
84.06	84.06	XING	AERIAL - 6 PAIR & 200 PAIR TELEPHONE CABLE
HOLDER: PUGET SOUND ENERGY			
84.04	84.04	XING	AERIAL - 12.5 KV AND 2400 VOLT SECONDARY POWER CABLE
HOLDER: UNKNOWN			
84.06	84.06	XING	AERIAL - TV CA JT ON PP&L POLES - U5-2

PLAN REFERENCE NO.

SHEET OF SHEETS

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\010-Index\XL5987_PS_IN.dgn			
TIME	6:26:30 AM			
DATE	3/22/2022			
PLOTTED BY	richaja			
DESIGNED BY	S. SIGSWORTH			
ENTERED BY	J. RICHARDSON			
CHECKED BY	B. THOMAS			
PROJ. ENGR.	B. HOOKER			
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY

REGION NO. 10 | STATE WASH

JOB NUMBER 22Y001

CONTRACT NO.

FED.AID PROJ.NO. NHPP-0902(454)

LOCATION NO.

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

INDEX / EXISTING UTILITIES

Plot 1

PLAN REF NO. IN1

SHEET 1 OF 108 SHEETS

PROJECT LICENSED PROFESSIONAL CERTIFICATES

Bob Hooker May 9, 2022 AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERCISION AS A LICENSED PROFESSIONAL.	Bijan Khaleghi May 9, 2022 AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERCISION AS A LICENSED PROFESSIONAL.	Nick Rodda May 9, 2022 AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERCISION AS A LICENSED PROFESSIONAL.	reidza@wsdot.wa.gov May 10, 2022 AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERCISION AS A LICENSED PROFESSIONAL.
Brian Aldrich May 9, 2022 AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERCISION AS A LICENSED PROFESSIONAL.	AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERCISION AS A LICENSED PROFESSIONAL.	AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERCISION AS A LICENSED PROFESSIONAL.	AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERCISION AS A LICENSED PROFESSIONAL.
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NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR STAMPS TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMP AND SIGNATURE APPEAR.

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\015-CertificationSheet\XL5987_CERTIFICATION_SHEET.dgn
TIME	11:14:47 AM
DATE	3/28/2022
PLOTTED BY	richaja
DESIGNED BY	S. SIGSWORTH
ENTERED BY	J. RICHARDSON
CHECKED BY	B. THOMAS
PROJ. ENGR.	B. HOOKER
REGIONAL ADM.	T. TREPANIER

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	NHPP-0902(454)

JOB NUMBER 22Y001

CONTRACT NO.

LOCATION NO.

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

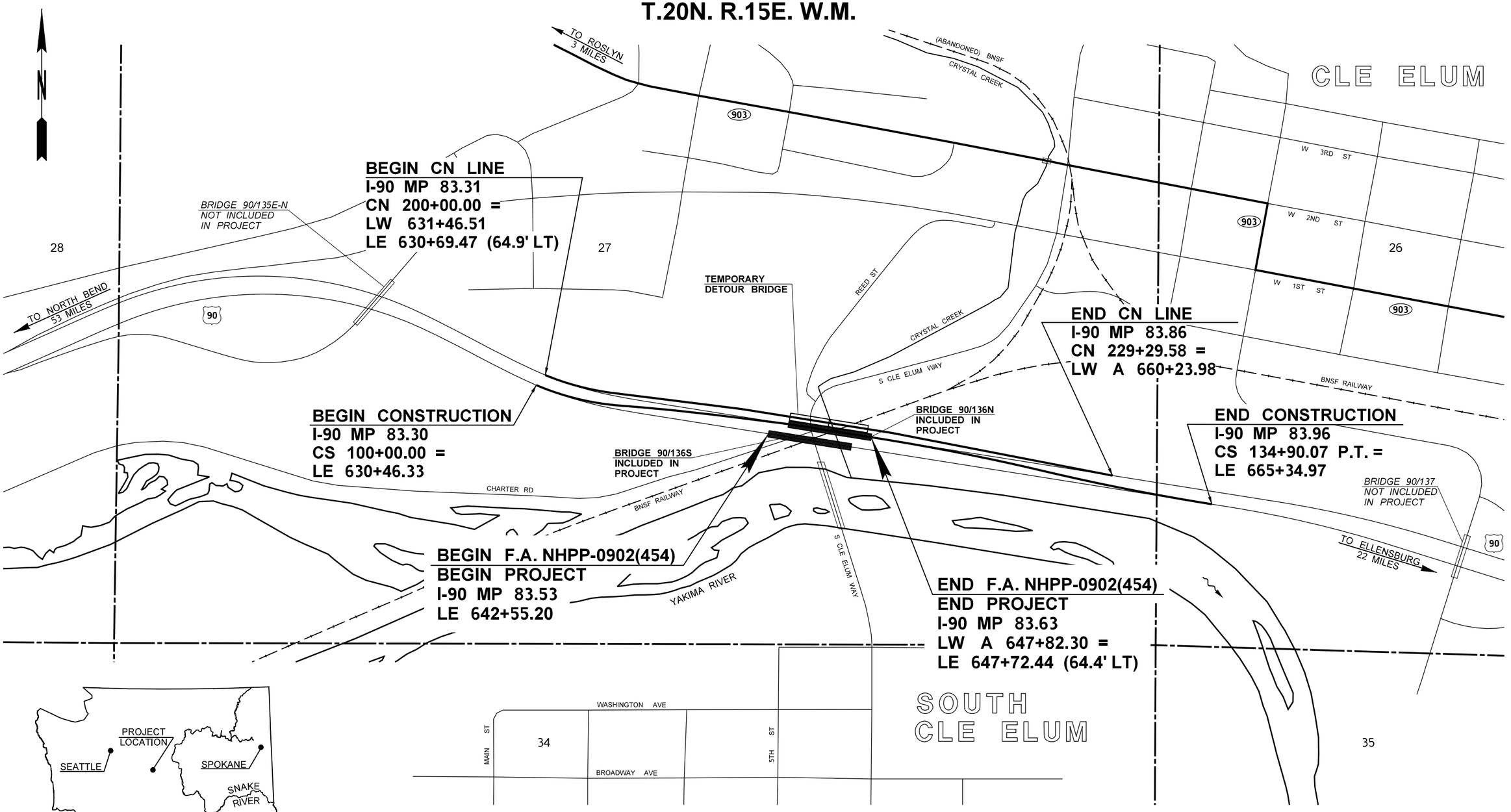
CERTIFICATION SHEET

Plot 1

PLAN REF NO CT1

SHEET 2 OF 108 SHEETS

T.20N. R.15E. W.M.



FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\020-Vicinity\XL5987_PS_VM.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. NHPP-0902(454)
TIME	1:16:02 PM						
DATE	3/16/2022				JOB NUMBER 22Y001		
PLOTTED BY	richaja						
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	G. BARRETT						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

VICINITY MAP

Plot 1

PLAN REF NO **VM1**

SHEET 3 OF 108 SHEETS

SUMMARY OF QUANTITIES

ITEM NO	TOTAL QUANTITY	SUB-TOTAL * SECTION I-07.2(1) OF STANDARD SPECS	SUB-TOTAL ** SECTION I-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	GROUP 1 BR 90/136S LE 642+55 TO LE 644+66	GROUP 1 BR 90/136N LW A643+58 TO LW A644+76	GROUP 1 I-90 LE 630+46 TO LE 644+66	GROUP 1 I-90 LW 631+46 TO LW A644+76	GROUP 1 I-90 CS 100+00 TO CS 114+20	GROUP 1 I-90 CN 200+00 TO CN 213+81	GROUP 1 TEMP BRIDGE CN 212+64 TO CN 213+81	GROUP 2 BR 90/136S LE 644+66 TO LE 646+80	GROUP 2 BR 90/136N LW A644+76 TO LW A647+82	GROUP 2 I-90 LE 644+66 TO LE 647+72	GROUP 2 I-90 LW A644+76 TO LW A660+24	GROUP 2 I-90 CS 114+20 TO CS 134+90	GROUP 2 I-90 CN 213+81 TO CN 229+30	GROUP 2 TEMP BRIDGE CN 213+81 TO CN 216+64	GROUP 3 THIRD PARTY DAMAGES	
						PREPARATION																
1	LUMP SUM		LUMP SUM	0001	L.S.	MOBILIZATION	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.		
2	LUMP SUM		LUMP SUM	0035	L.S.	CLEARING AND GRUBBING					L.S.	L.S.						L.S.	L.S.			
3	LUMP SUM		LUMP SUM	0061	L.S.	REMOVING PORTION OF EXISTING BRIDGE NO. 90/136S	L.S.							L.S.								
4	LUMP SUM		LUMP SUM	0061	L.S.	REMOVING PORTION OF EXISTING BRIDGE NO. 90/136N		L.S.							L.S.							
5	1787.50		1787.50	0170	L.F.	REMOVING GUARDRAIL				437.50							1,350.00					
6	6.00		6.00	0182	EACH	REMOVING GUARDRAIL ANCHOR			1.00	4.00							1.00					
7	12840.00		12840.00	0187	L.F.	REMOVING PAINT LINE			2,840.00	2,760.00						4,140.00	3,100.00					
8	6440.00		6440.00	0190	L.F.	REMOVING PLASTIC LINE			1,425.00	1,390.00						2,075.00	1,550.00					
9	LUMP SUM		LUMP SUM	0215	L.S.	REMOVING MISCELLANEOUS TRAFFIC ITEM			L.S.	L.S.						L.S.	L.S.					
10	1830.00		1830.00		L.F.	REMOVING CABLE BARRIER AND RESETTING			701.00							1,129.00						
11	120.00		120.00		L.F.	REMOVING HIGH-TENSION CABLE BARRIER SYSTEM			60.00							60.00						
12	3.00		3.00		EACH	REMOVING CONNECTION TO DRAINAGE STRUCTURE					1.00	1.00						1.00				
13	10000.00		10000.00		DOL	TREE REMOVAL						10,000.00										
						GRADING																
14	4060.00		4060.00	0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL					420.00	2,570.00						640.00	430.00			
15	LUMP SUM		LUMP SUM		L.S.	DETOUR REMOVAL					L.S.	L.S.						L.S.	L.S.			
16	3800.00		3800.00	0405	C.Y.	COMMON BORROW INCL. HAUL													3,800.00			
17	1220.00		1220.00	0409	C.Y.	SELECT BORROW INCL. HAUL													1,220.00			
18	15590.00		15590.00	0470	C.Y.	EMBANKMENT COMPACTION					720.00	4,490.00						840.00	9,540.00			
						DRAINAGE																
19	51.00		51.00	1085	C.Y.	QUARRY SPALLS						31.00							20.00			
20	626.00		626.00	1160	L.F.	UNDERDRAIN PIPE 6 IN. DIAM.						368.00							258.00			
21	20.00		20.00	1170	L.F.	DRAIN PIPE 6 IN. DIAM.						10.00							10.00			
22	20000.00		20000.00		DOL	BYPASS DRAINAGE						20,000.00										
						STORM SEWER																
23	8.00		8.00	3091	EACH	CATCH BASIN TYPE 1					4.00	1.00						3.00				
24	1165.00		1165.00	3541	L.F.	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.					583.00	377.00						205.00				
						STRUCTURE																
25	LUMP SUM		LUMP SUM	4001	L.S.	TEMPORARY BRIDGE OVER S CLE ELUM WAY & BNSF							L.S.							L.S.		
26	3340.00		3340.00	4006	C.Y.	STRUCTURE EXCAVATION CLASS A INCL. HAUL						1,540.00							1,800.00			
27	LUMP SUM		LUMP SUM	4013	L.S.	SHORING OR EXTRA EXCAVATION CL. A FOR TEMPORARY BRIDGE							L.S.							L.S.		
28	LUMP SUM		LUMP SUM	4013	L.S.	SHORING OR EXTRA EXCAVATION CL. A FOR APPROACH WALLS						L.S.							L.S.				
29	42986.00		42986.00	4151	LB.	ST. REINF. BAR FOR TEMP. BR. FOOTING							21,493.00							21,493.00		
30	194.00		194.00	4202	C.Y.	CONC. CLASS 4000 FOR TEMP. BR. FOOTING							97.00							97.00		
31	132.00		132.00		C.Y.	CONC. CLASS 4000D FOR CONCRETE OVERLAY -BR. NO. 90/136S	66.00							66.00								
32	132.00		132.00		C.Y.	CONC. CLASS 4000D FOR CONCRETE OVERLAY -BR. NO. 90/136N		66.00							66.00							
33	LUMP SUM		LUMP SUM		L.S.	BOX GIRDER ACCESS - BR. NO. 90/136S	L.S.							L.S.								
34	LUMP SUM		LUMP SUM		L.S.	BOX GIRDER ACCESS - BR. NO. 90/136N		L.S.							L.S.							
35	-1.00		-1.00	4219	DOL	DEFICIENT STRENGTH CONC. PRICE ADJUSTMENT	-1.00															
36	LUMP SUM		LUMP SUM	4235	L.S.	STRUCTURAL LOW ALLOY STEEL							L.S.							L.S.		
37	120.00		120.00	4444	L.F.	EXPANSION JOINT MODIFICATION COMPRESSION SEAL	30.00	30.00						30.00	30.00							
38	1650.00		1650.00	4455	S.Y.	WATERPROOF MEMBRANE BR. NO. ACROW BRIDGE							825.00							825.00		
39	2830.00		2830.00	4456	S.Y.	SCARIFYING CONC. SURFACE	707.00	707.00						708.00	708.00							

GROUP LEGEND

GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
1	090	190200	**	STATE - MVA,FEDERAL - MVA
2	090	190210	**	STATE - MVA,FEDERAL - MVA
3	090	190200	**	STATE THIRD PARTY

DATE	REVISION	BY

REGION	STATE
10	WA

JOB NUMBER 22Y001/2

CONTRACT NO 000000

FEDERAL AID PROJECT. NO.
NHFP-0902(454)

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

SUMMARY OF QUANTITIES

SQ1

SHEET 4 OF 108 SHEETS

SUMMARY OF QUANTITIES

DOT_RGG900

5/4/2022

ITEM NO	TOTAL QUANTITY	SUB-TOTAL * SECTION I-07.2(1) OF STANDARD SPECS	SUB-TOTAL ** SECTION I-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	GROUP 1 BR 90/136S LE 642+55 TO LE 644+66	GROUP 1 BR 90/136N LW A643+58 TO LW A644+76	GROUP 1 I-90 LE 630+46 TO LE 644+66	GROUP 1 I-90 LW 631+46 TO LW A644+76	GROUP 1 I-90 CS 100+00 TO CS 114+20	GROUP 1 I-90 CN 200+00 TO CN 213+81	GROUP 1 TEMP BRIDGE CN 212+64 TO CN 213+81	GROUP 2 BR 90/136S LE 644+66 TO LE 646+80	GROUP 2 BR 90/136N LW A644+76 TO LW A647+82	GROUP 2 I-90 LE 644+66 TO LE 647+72	GROUP 2 I-90 LW A644+76 TO LW A660+24	GROUP 2 I-90 CS 114+20 TO CS 134+90	GROUP 2 I-90 CN 213+81 TO CN 229+30	GROUP 2 TEMP BRIDGE CN 213+81 TO CN 216+64	GROUP 3 THIRD PARTY DAMAGES	
40	2830.00		2830.00	4458	S.Y.	REMOVING EXISTING CONCRETE OVERLAY	707.00	707.00						708.00	708.00							
41	60000.00		60000.00	4463	DOL	FORCE ACCOUNT FORMS FOR FULL DEPTH DECK REPAIR	25,000.00	5,000.00						25,000.00	5,000.00							
42	3320.00		3320.00		S.F.	FURTHER DECK PREPARATION-EXIST. REPAIR MATL. 90/136S	1,660.00							1,660.00								
43	850.00		850.00		S.F.	FURTHER DECK PREPARATION-EXIST. REPAIR MATL. 90/136N		425.00							425.00							
						SURFACING																
44	5360.00		5360.00	5100	TON	CRUSHED SURFACING BASE COURSE					1,050.00	1,530.00						1,250.00	1,530.00			
						CEMENT CONCRETE PAVEMENT																
45	149.30		149.30	5662	S.Y.	REPLACE CEMENT CONCRETE PANEL			149.30													
46	77.00		77.00	5712	S.Y.	CEMENT CONCRETE PAVEMENT GRINDING			77.00													
47	2000.00		2000.00	5709	DOL	REPLACE UNCOMPACTABLE MATERIAL			2,000.00													
						HOT MIX ASPHALT																
48	3200.00		3200.00	5767	TON	HMA CL. 1/2 IN. PG 64H-28					550.00	940.00						670.00	1,040.00			
49	11425.00		11425.00	5830	DOL	JOB MIX COMPLIANCE PRICE ADJUSTMENT					1,964.00	3,356.00						2,392.00	3,713.00			
50	19041.00		19041.00	5835	DOL	COMPACTION PRICE ADJUSTMENT					3,273.00	5,593.00						3,987.00	6,188.00			
51	14958.00		14958.00	5837	DOL	ASPHALT COST PRICE ADJUSTMENT					2,571.00	4,394.00						3,132.00	4,861.00			
52	-1.00		-1.00	6516	DOL	CYCLIC DENSITY PRICE ADJUSTMENT						-1.00										
						EROSION CONTROL AND ROADSIDE PLANTING																
53	17.00		17.00	6471	EACH	INLET PROTECTION			4.00	4.00	4.00	1.00				1.00		3.00				
54	LUMP SUM		LUMP SUM	6488	L.S.	EROSION CONTROL AND WATER POLLUTION PREVENTION	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.		
55	4.80		4.80	6437	ACRE	TEMPORARY MULCHING					1.00	1.00						1.30	1.50			
56	3.50		3.50	6422	ACRE	SEEDING AND MULCHING					0.91	0.54						1.31	0.74			
57	667.00		667.00	6552	EACH	PSIPE						323.00							344.00			
58	3.50		3.50	6481	ACRE	MEDIUM COMPOST					0.91	0.54						1.31	0.74			
59	6190.00		6190.00	6484	S.Y.	MEDIUM COMPOST						2,170.00							4,020.00			
60	6190.00		6190.00	6580	S.Y.	BARK OR WOOD CHIP MULCH						2,170.00							4,020.00			
61	1380.00		1380.00	6630	L.F.	HIGH VISIBILITY FENCE											1,380.00					
						TRAFFIC																
62	1787.50		1787.50	6757	L.F.	BEAM GUARDRAIL TYPE 31			75.00	387.50							1,325.00					
63	11.00		11.00	6760	EACH	BEAM GUARDRAIL TRANSITION SECTION TYPE 21				2.00							4.00	4.00	1.00			
64	2.00		2.00	6719	EACH	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL			1.00								1.00					
65	4.00		4.00	6766	EACH	BEAM GUARDRAIL ANCHOR TYPE 10				4.00												
66	15037.50		15037.50	6781	L.F.	TEMPORARY BARRIER			475.00	912.50	2,275.00	3,175.00				1,237.50	1,387.50	3,437.50	2,137.50			
67	2180.00		2180.00	7432	L.F.	HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE)			761.00							1,419.00						
68	LUMP SUM		LUMP SUM	7434	L.S.	ADDITIONAL HIGH-TENSION CABLE BARRIER COMPONENTS			L.S.							L.S.						
69	4.00		4.00	7440	EACH	TEMPORARY IMPACT ATTENUATOR			1.00							1.00	2.00					
70	8.00		8.00	7445	EACH	RESETTING IMPACT ATTENUATOR					3.00	1.00				2.00			2.00			
71	50.00		50.00	6832	EACH	FLEXIBLE GUIDE POST			18.00	12.00						8.00	12.00					
72	2646.00		2646.00		EACH	LDS BARRIER DELINEATOR			76.00	146.00	364.00	508.00				198.00	222.00	790.00	342.00			
73	12860.00		12860.00	6806	L.F.	PAINT LINE			2,866.00	2,759.00						4,124.00	3,111.00					
74	6440.00		6440.00	6813	L.F.	GROOVED PLASTIC LINE			1,435.00	1,382.00						2,065.00	1,558.00					
75	5.00		5.00	6880	EACH	PAINTED DRAINAGE MARKING				4.00						1.00						
76	1.33		1.33	6892	MI.	SHOULDER RUMBLE STRIP TYPE 1			0.11	0.49						0.17	0.56					
77	0.35		0.35	6889	HUND	RECESSED PAVEMENT MARKER			0.05	0.10						0.07	0.13					
78	51770.00		51770.00	6896	L.F.	TEMPORARY PAVEMENT MARKING-LONG DURATION			6,665.00	7,640.00	4,293.00	4,131.00				9,590.00	8,615.00	6,177.00	4,659.00			

GROUP LEGEND

GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
1	090	190200	**	STATE - MVA,FEDERAL - MVA
2	090	190210	**	STATE - MVA,FEDERAL - MVA
3	090	190200	**	STATE THIRD PARTY

DATE	REVISION	BY

REGION	STATE
10	WA

JOB NUMBER 22Y001/2

CONTRACT NO 000000

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I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

SUMMARY OF QUANTITIES

SQ2

SHEET 5 OF 108 SHEETS

SUMMARY OF QUANTITIES

ITEM NO	TOTAL QUANTITY	SUB-TOTAL * SECTION I-07.2(1) OF STANDARD SPECS	SUB-TOTAL ** SECTION I-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	GROUP 1 BR 90/136S LE 642+55 TO LE 644+66	GROUP 1 BR 90/136N LW A643+58 TO LW A644+76	GROUP 1 I-90 LE 630+46 TO LE 644+66	GROUP 1 I-90 LW 631+46 TO LW A644+76	GROUP 1 I-90 CS 100+00 TO CS 114+20	GROUP 1 I-90 CN 200+00 TO CN 213+81	GROUP 1 TEMP BRIDGE CN 212+64 TO CN 213+81	GROUP 2 BR 90/136S LE 644+66 TO LE 646+80	GROUP 2 BR 90/136N LW A644+76 TO LW A647+82	GROUP 2 I-90 LE 644+66 TO LE 647+72	GROUP 2 I-90 LW A644+76 TO LW A660+24	GROUP 2 I-90 CS 114+20 TO CS 134+90	GROUP 2 I-90 CN 213+81 TO CN 229+30	GROUP 2 TEMP BRIDGE CN 213+81 TO CN 216+64	GROUP 3 THIRD PARTY DAMAGES	
79	10512.00		10512.00	6918	HR	OPERATION OF QUEUE WARNING SYSTEM					3,744.00								6,768.00			
80	28512.00		28512.00	6993	HR	PORTABLE CHANGEABLE MESSAGE SIGN			11,136.00								17,376.00					
81	216.00		216.00		HR	RADAR SPEED DISPLAY SIGN			216.00													
82	LUMP SUM		LUMP SUM	6971	L.S.	PROJECT TEMPORARY TRAFFIC CONTROL			L.S.	L.S.	L.S.	L.S.				L.S.	L.S.	L.S.	L.S.			
83	570.00		570.00	6982	S.F.	CONSTRUCTION SIGNS CLASS A			285.00								285.00					
						OTHER ITEMS																
84	4000.00		4000.00	9004	DOL	PROJECT PARTNERING					1,000.00	1,000.00						1,000.00	1,000.00			
85	LUMP SUM		LUMP SUM	7003	L.S.	TYPE B PROGRESS SCHEDULE	L.S.	L.S.			L.S.	L.S.	L.S.	L.S.	L.S.			L.S.	L.S.	L.S.		
86	762.00		762.00	7006	C.Y.	STRUCTURE EXCAVATION CLASS B INCL. HAUL					262.00	390.00						90.00	20.00			
87	19.00		19.00	7014	C.Y.	GRAVEL BACKFILL FOR DRAIN						11.00							8.00			
88	LUMP SUM		LUMP SUM	7037	L.S.	STRUCTURE SURVEYING	L.S.	L.S.					L.S.	L.S.	L.S.					L.S.		
89	LUMP SUM		LUMP SUM	7038	L.S.	ROADWAY SURVEYING					L.S.	L.S.						L.S.	L.S.			
90	3.00		3.00	9605	EACH	CONNECTION TO DRAINAGE STRUCTURE					1.00	1.00						1.00				
91	800.00		800.00	7400	HR	TRAINING			200.00	200.00						200.00	200.00					
92	10000.00		10000.00	7480	DOL	ROADSIDE CLEANUP			2,500.00	2,500.00						2,500.00	2,500.00					
93	5.00		5.00	7725	DOL	REIMBURSEMENT FOR THIRD PARTY DAMAGE															5.00	
94	-1.00		-1.00	7728	DOL	MINOR CHANGE	-1.00															
95	-1.00		-1.00	7732	DOL	AGGREGATE COMPLIANCE PRICE ADJUSTMENT						-1.00										
96	LUMP SUM		LUMP SUM	7736	L.S.	SPCC PLAN	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.	L.S.		
97	583.00		583.00	7554	S.Y.	CONSTRUCTION GEOTEXTILE FOR PERMANENT EROSION CONTROL						454.00							129.00			
98	12540.00		12540.00	7559	S.F.	GEOSYNTHETIC RETAINING WALL						6,407.00							6,133.00			
99	7780.00		7780.00	7567	C.Y.	GRAVEL BORROW FOR STRUCTURAL EARTH WALL INCL. HAUL						3,286.00							4,494.00			
100	LUMP SUM		LUMP SUM		L.S.	TEMPORARY CUT-SLOPE RETAINING WALL						L.S.										
101	40.00		40.00		C.Y.	EPS TYPE 39 GEOFOAM LIGHTWEIGHT FILL						20.00							20.00			
102	60.00		60.00		L.F.	ECOLOGY BLOCK						30.00							30.00			

GROUP LEGEND

GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
1	090	190200	**	STATE - MVA,FEDERAL - MVA
2	090	190210	**	STATE - MVA,FEDERAL - MVA
3	090	190200	**	STATE THIRD PARTY

DATE	REVISION	BY

REGION	STATE
10	WA

JOB NUMBER 22Y001/2

CONTRACT NO 000000

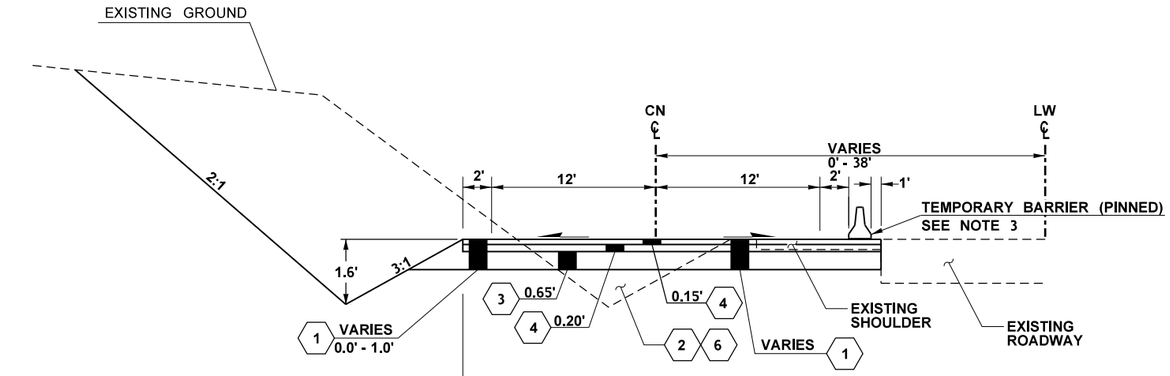
FEDERAL AID PROJECT. NO.
NHFP-0902(454)

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

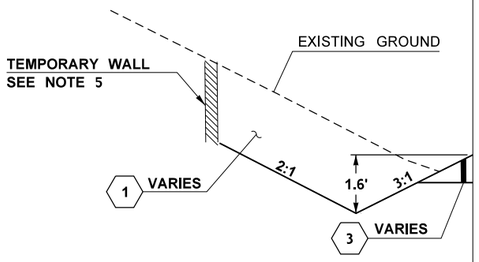
SUMMARY OF QUANTITIES

SQ3

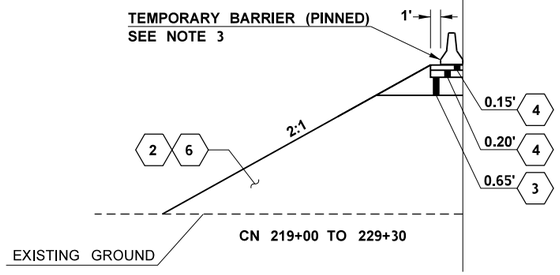


ROADWAY SECTION A

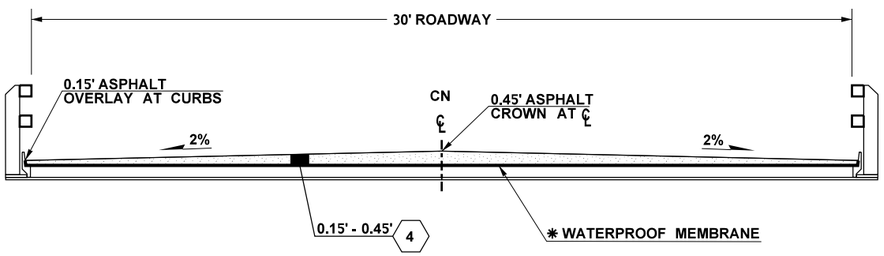
CN 200+00 TO 209+30
CN 219+00 TO 229+30



CN 203+58.00 TO 209+00.00

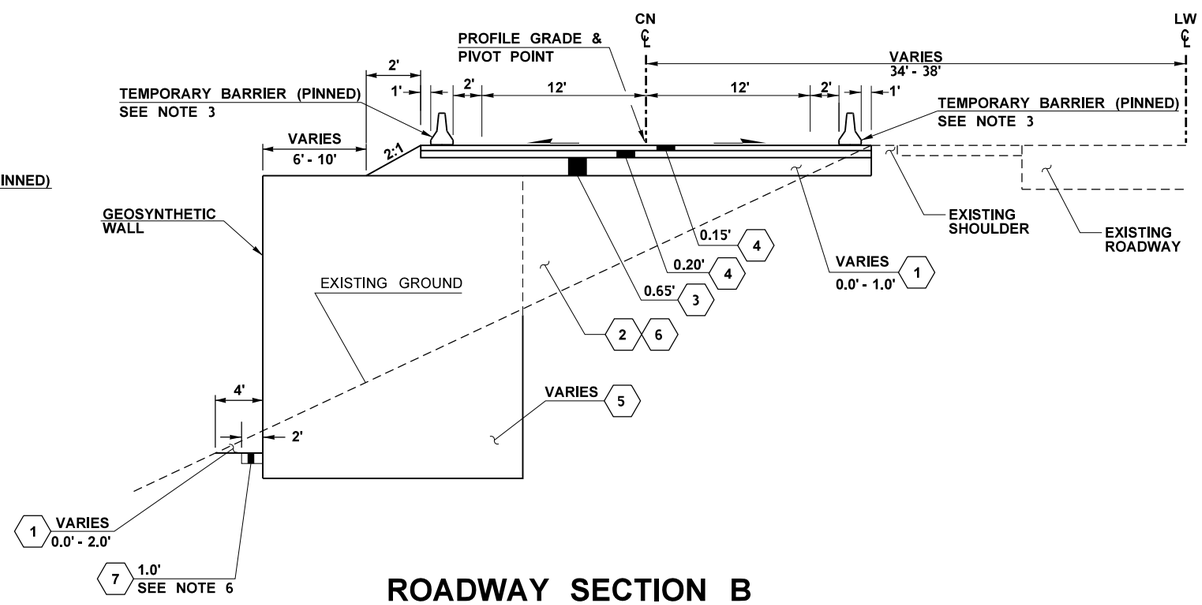


CN 219+00 TO 229+30



TEMPORARY BRIDGE SECTION

CN 212+63.94 TO 216+63.94



ROADWAY SECTION B

CN 209+30 TO 212+63.94
CN 216+63.94 TO 219+00

NOT TO SCALE

NOTES:

1. ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.
2. SEE PAVING PLANS FOR VARIABLE WIDTHS.
3. SEE TEMPORARY PAVING/MARKING PLAN FOR TEMPORARY BARRIER LOCATIONS SHEETS TP1 - TP3.
4. SEE PLAN AND PROFILE SHEETS RP1 - RP6 FOR ADDITIONAL WORK, QUANTITIES AND CROSS SLOPES.
5. SEE SHEET TW1 FOR ADDITIONAL TEMPORARY WALL INFORMATION.
6. SEE SHEET DD1 FOR QUARRY SPALLS SECTION DETAILS.

✱ CONTRACTOR TO APPLY WATERPROOF MEMBRANE TO THE DECK PRIOR TO PLACING THE ASPHALT OVERLAY INSTALL PER MANUFACTURER'S INSTRUCTIONS.

LEGEND

1	ROADWAY EXCAVATION INCL. HAUL
2	EMBANKMENT COMPACTION
3	CRUSHED SURFACING BASE COURSE
4	HMA CL. 1/2 IN. PG 64H-28
5	STRUCTURE EXCAVATION CLASS A INCL. HAUL
6	COMMON BORROW INCL. HAUL
7	QUARRY SPALLS

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\050-RdwySec\XL5987_PS_RS.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. NHPP-0902(454)
TIME	11:48:27 AM						
DATE	4/21/2022						
PLOTTED BY	richaja				JOB NUMBER 22Y001		
DESIGNED BY	S. SIGSWORTH						
ENTERED BY	F.SOH				CONTRACT NO.		LOCATION NO.
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

BOBBY E.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

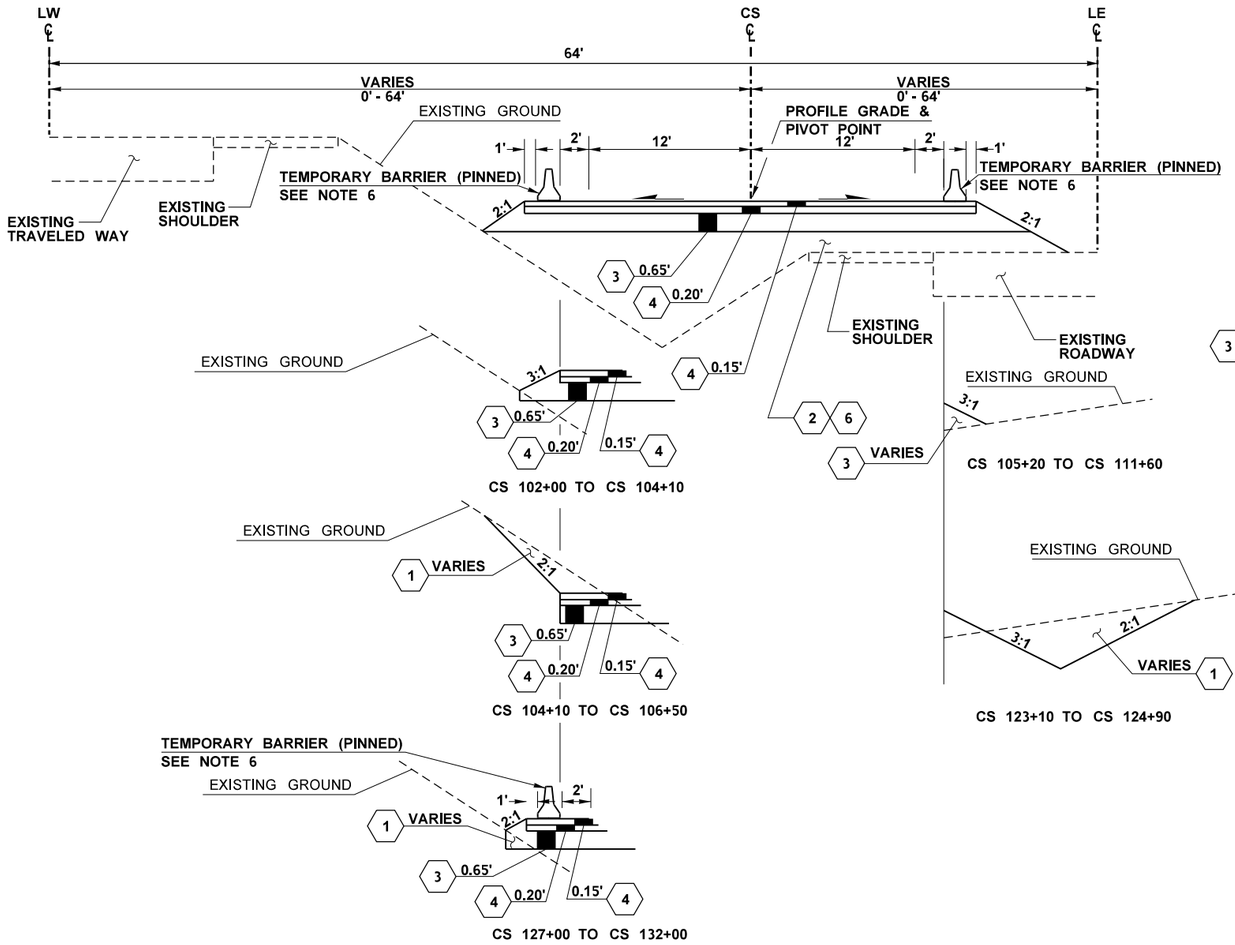
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

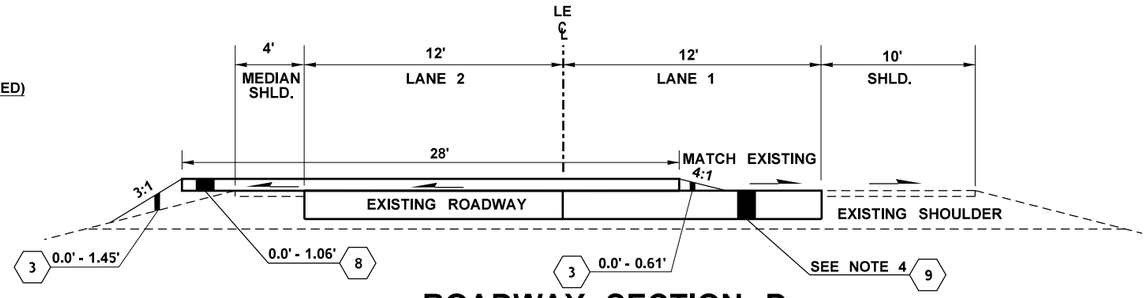
ROADWAY SECTION

Plot 1
PLAN REF NO RS1
SHEET 7 OF 108 SHEETS



ROADWAY SECTION C

CS 100+00 TO 134+90



ROADWAY SECTION D

TYPICAL PANEL SECTION

SEE SHEET PM1 FOR LOCATIONS
LE 633+39 TO LE 633+95

NOTES:

1. ALL PANEL REMOVAL, REPLACEMENT OPERATIONS, SLAB DOWEL AND TIE BAR REINFORCEMENT INSTALLATION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS 5-01 AND STANDARD PLANS SHEET A-40.10, AND A-60.10
2. ALL CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTIONS 5-01 AND 5-05 AND STANDARD PLANS A-60.10
3. MATCH EXISTING PANEL DEPTH
4. PANEL SHALL BE FINISHED LONGITUDINALLY TO EXISTING GRADE
5. ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.
6. SEE TEMPORARY PAVING/MARKING PLAN FOR TEMPORARY BARRIER LOCATIONS SHEETS TP1 - TP3.
7. SEE PLAN AND PROFILE SHEETS RP1 - RP6 FOR ADDITIONAL WORK, QUANTITIES AND CROSS SLOPES.

NOT TO SCALE

LEGEND

- 1 ROADWAY EXCAVATION INCL. HAUL
- 2 EMBANKMENT COMPACTION
- 3 CRUSHED SURFACING BASE COURSE
- 4 HMA CL. 1/2 IN. PG 64H-28
- 6 COMMON BORROW INCL. HAUL
- 8 DETOUR REMOVAL
- 9 REPLACE CEMENT CONCRETE PANEL

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\050-RdwySec\XL5987_PS_RS.dgn				REGION NO.	STATE	FED.AID PROJ.NO. NHPP-0902(454)
TIME	11:48:34 AM				10	WASH	
DATE	4/21/2022				JOB NUMBER 22Y001		
PLOTTED BY	richaja						
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	F.SOH						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

ROBERT E.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

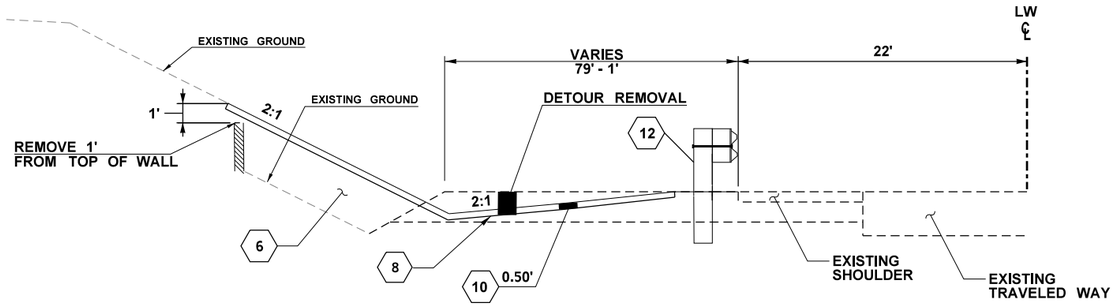
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

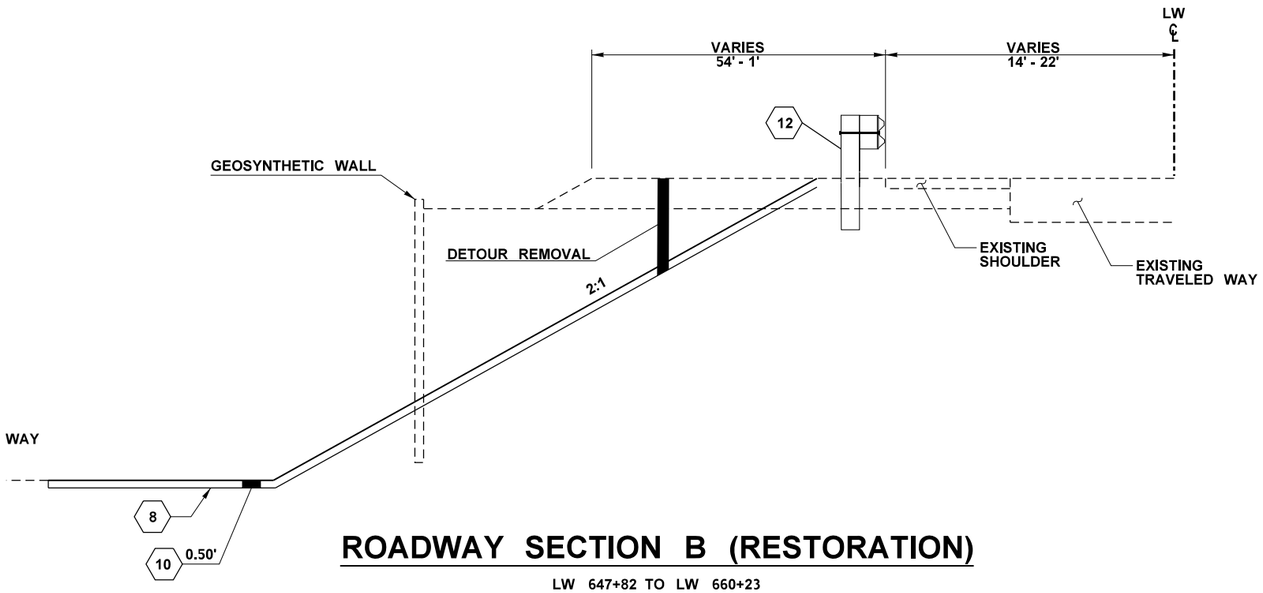
ROADWAY SECTION

Plot 2
PLAN REF NO RS2
SHEET 8 OF 108 SHEETS



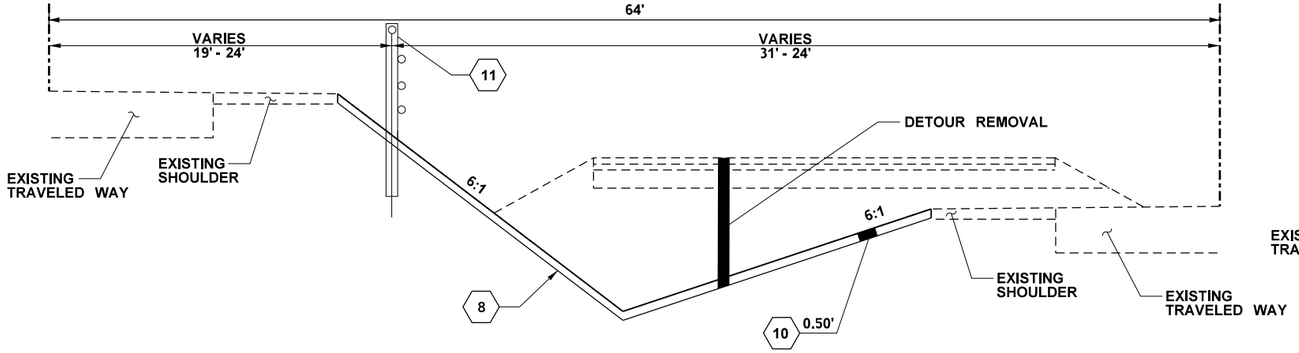
ROADWAY SECTION A (RESTORATION)

LW 631+46 TO LW 643+57



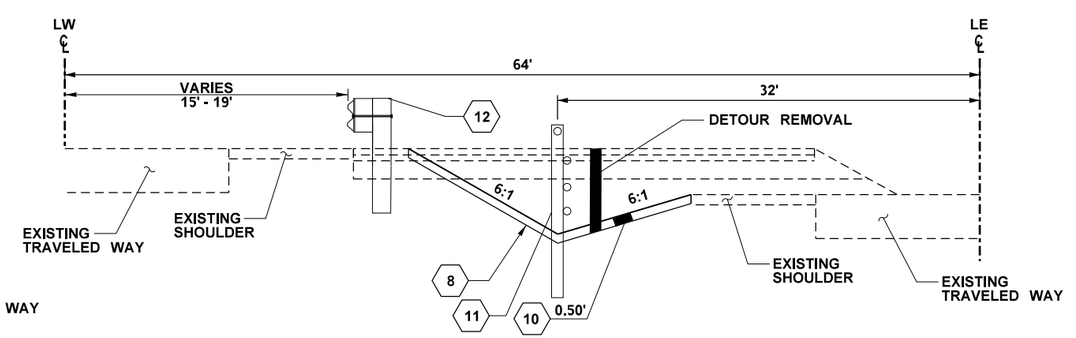
ROADWAY SECTION B (RESTORATION)

LW 647+82 TO LW 660+23



ROADWAY SECTION C (RESTORATION)

LE 630+46 TO LE 642+55



ROADWAY SECTION D (RESTORATION)

LE 646+79 TO LE 661+45

LEGEND

- 6 COMMON BORROW INCL. HAUL
- 8 DETOUR REMOVAL (LOWER LIMIT)
- 10 MEDIUM COMPOST, SEEDING AND MULCHING
- 11 HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE)
- 12 BEAM GUARDRAIL TYPE 31

NOTES:

1. ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.
2. SEE PAVING PLANS TP1 - TP3 FOR VARIABLE WIDTHS.
3. SEE SPECIAL PROVISION "ROADSIDE RESTORATION" FOR COMPOST, SEEDING MIX, AND MULCH.

NOT TO SCALE

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\045-RoadsideRestoration\XL5987_PS_RR.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	11:59:07 AM				10	WASH	NHPP-0902(454)
DATE	3/28/2022				JOB NUMBER		
PLOTTED BY	richaja				22Y001		
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. RICHARDSON						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

BOBBY E.S. HOOKER — STATE OF WASHINGTON — 24020 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

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DATE

P.E. STAMP BOX

Washington State Department of Transportation

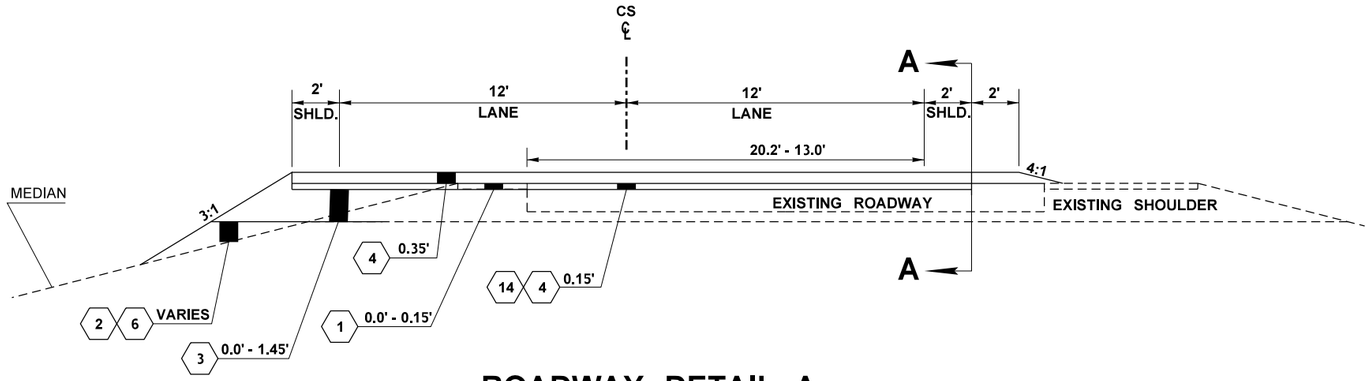
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

ROADSIDE RESTORATION

Plot 1

PLAN REF NO
RR1

SHEET 9 OF 108 SHEETS

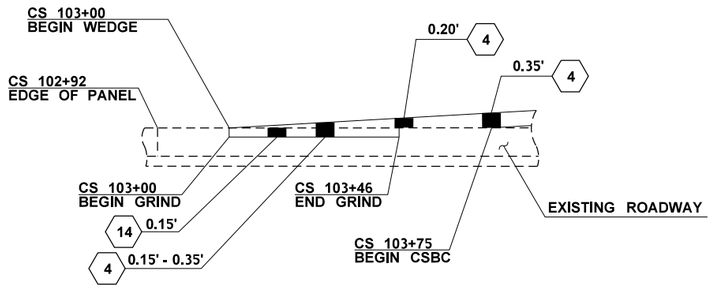


ROADWAY DETAIL A

PAVEMENT WEDGE PROFILE VIEW

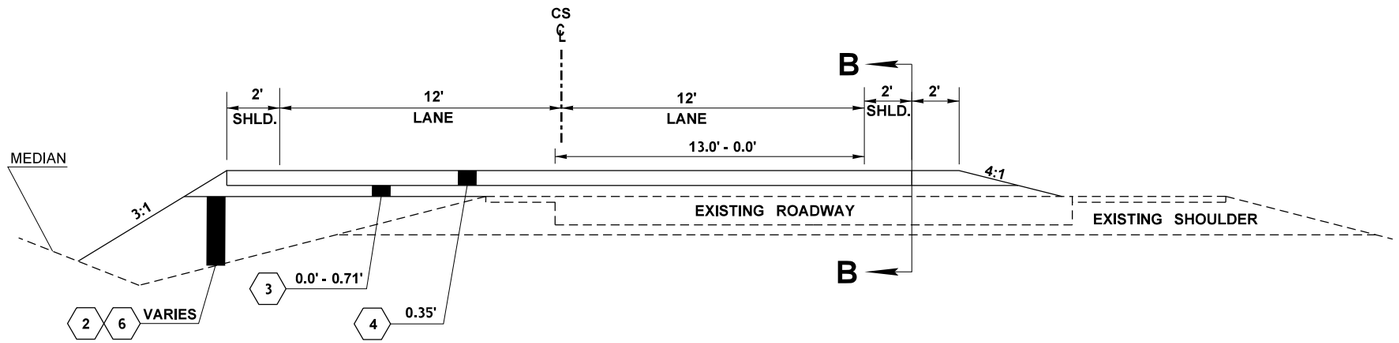
SEE SHEET TP1 FOR LOCATIONS

CS 103+00 TO CS 104+03



ROADWAY SECTION A-A

PAVEMENT WEDGE SECTION VIEW

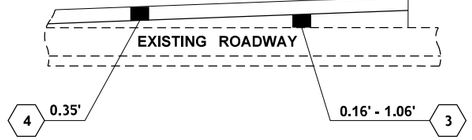


ROADWAY DETAIL B

PAVEMENT WEDGE PROFILE VIEW

SEE SHEET TP1 FOR LOCATIONS

CS 104+03 TO CS 104+74



ROADWAY SECTION B-B

PAVEMENT WEDGE SECTION VIEW

LEGEND

1	ROADWAY EXCAVATION INCL. HAUL
2	EMBANKMENT COMPACTION
3	CRUSHED SURFACING BASE COURSE
4	HMA CL. 1/2 IN. PG 64H-28
6	COMMON BORROW INCL. HAUL
14	CEMENT CONCRETE PAVEMENT GRINDING

NOTES:

1. SEE SPECIAL PROVISION "PROSECUTION OF WORK".

NOT TO SCALE

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\050-RdwySec\XL5987_PS_RS.dgn			
TIME	9:38:31 AM			
DATE	3/29/2022			
PLOTTED BY	richaja			
DESIGNED BY	S. SIGSWORTH			
ENTERED BY	J. RICHARDSON			
CHECKED BY	B. THOMAS			
PROJ. ENGR.	B. HOOKER			
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY

REGION NO. 10 | STATE WASH

JOB NUMBER 22Y001

CONTRACT NO.

FED.AID PROJ.NO. NHPP-0902(454)

LOCATION NO.

BOBBY E.S. HOOKER — STATE OF WASHINGTON — 24201 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

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P.E. STAMP BOX — DATE

Washington State Department of Transportation

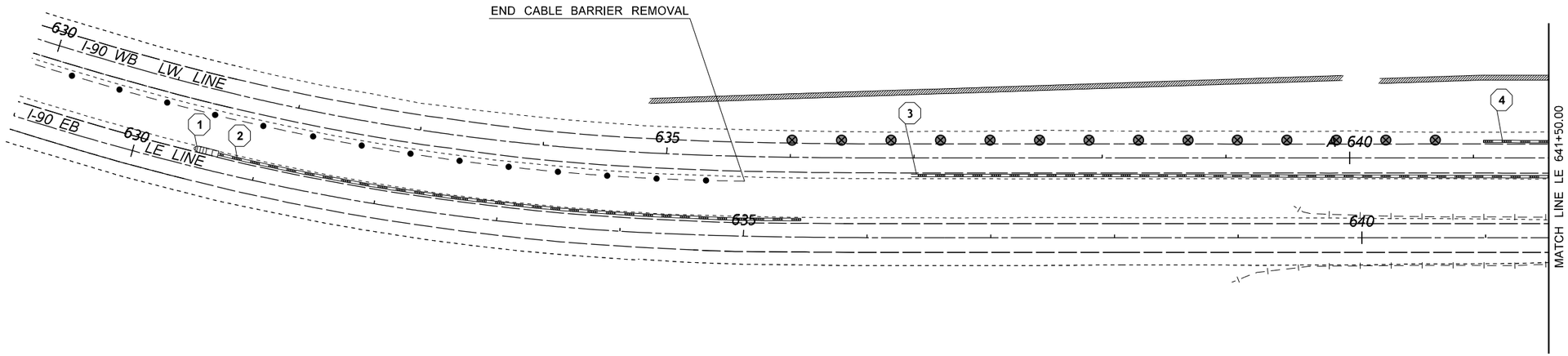
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

WEDGE SECTION DETAIL

Plot 3

PLAN REF NO WD1

SHEET 10 OF 108 SHEETS



LEGEND

----------	EXISTING PAVED EDGE		TEMPORARY IMPACT ATTENUATOR
-|— —|— —|-	EXISTING GUARDRAIL	⊗	TRAFFIC SAFETY DRUM
- ● — — ●	EXISTING CABLE BARRIER		
	RETAINING WALL		
	TEMPORARY BARRIER		

NOTE:

1. STAGING PLAN TO REMAIN IN PLACE DURING DETOUR CONSTRUCTION AND REMOVAL. CONTRACTOR TO REVISE/VERIFY PLAN NECESSARY TO MEET THE NEEDS OF THEIR OPERATION.

2. SEE SHEET QTTP 1 "QUANTITY TABULATION - TEMPORARY PAVING/MARKING PLAN" FOR QUANTITIES.

0 50 100
SCALE IN FEET

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\070-StagingPlan\XL5987_PS_ST.dgn				REGION NO.	STATE	FED.AID PROJ.NO. NHPP-0902(454)
TIME	8:16:54 AM				10	WASH	
DATE	3/25/2022				JOB NUMBER 22Y001		
PLOTTED BY	thomasb				CONTRACT NO.		LOCATION NO.
DESIGNED BY	S. SIGSWORTH						
ENTERED BY	J. RICHARDSON						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

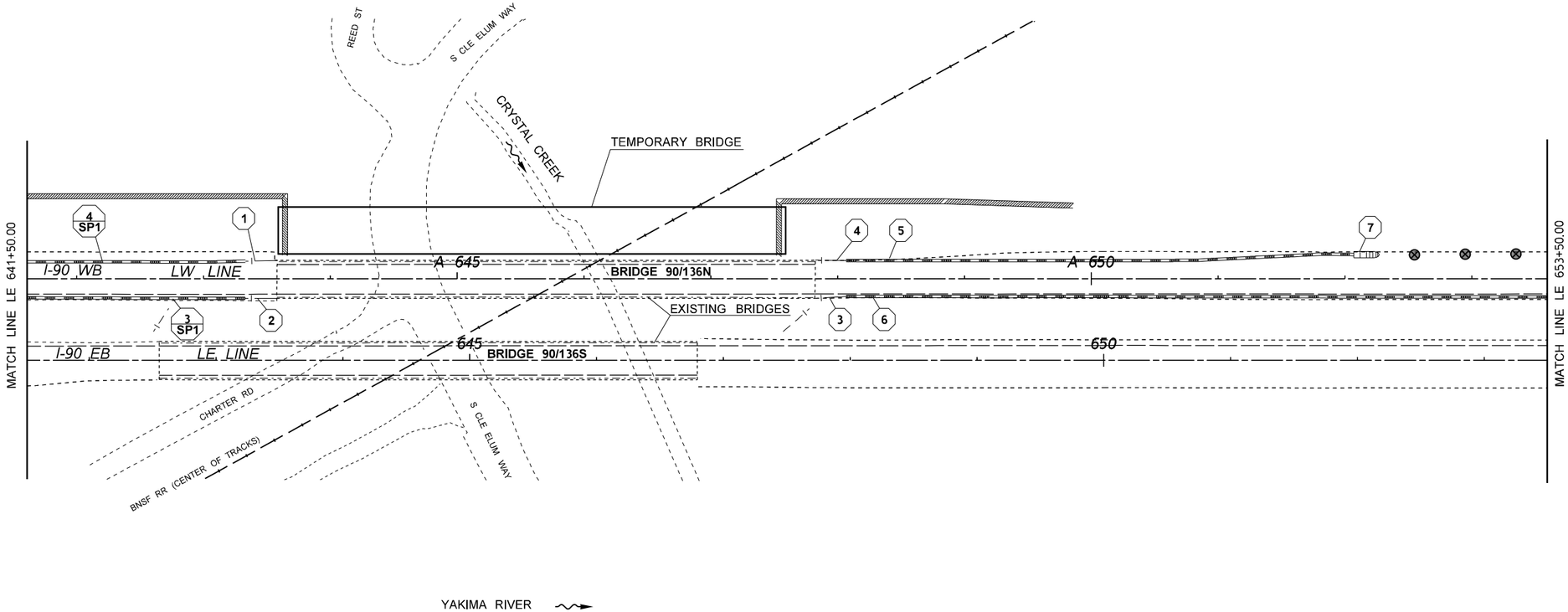
ROBBY E.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
STAGING PLAN

Plot 1
PLAN REF NO **ST1**
SHEET 11 OF 108 SHEETS



LEGEND

----------	EXISTING PAVED EDGE	-I——	GUARDRAIL CONNECTION TO BRIDGE RAIL OR CONCRETE BARRIER
-I— —I— —I-	EXISTING GUARDRAIL	⊗	TRAFFIC SAFETY DRUM
	RETAINING WALL		
	TEMPORARY BARRIER		
	TEMPORARY IMPACT ATTENUATOR		

NOTE:

1. STAGING PLAN TO REMAIN IN PLACE DURING DETOUR CONSTRUCTION AND REMOVAL. CONTRACTOR TO REVISE/VERIFY PLAN NECESSARY TO MEET THE NEEDS OF THEIR OPERATION.

2. SEE SHEET QTTP 1 "QUANTITY TABULATION - TEMPORARY PAVING/MARKING PLAN" FOR QUANTITIES.

0 50 100
SCALE IN FEET

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TIME	8:17:00 AM
DATE	3/25/2022
PLOTTED BY	thomasb
DESIGNED BY	S. SIGSWORTH
ENTERED BY	J. RICHARDSON
CHECKED BY	B. THOMAS
PROJ. ENGR.	B. HOOKER
REGIONAL ADM.	T. TREPANIER

REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 22Y001
CONTRACT NO.

FED.AID PROJ.NO. NHPP-0902(454)
LOCATION NO.

ROBERT E.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

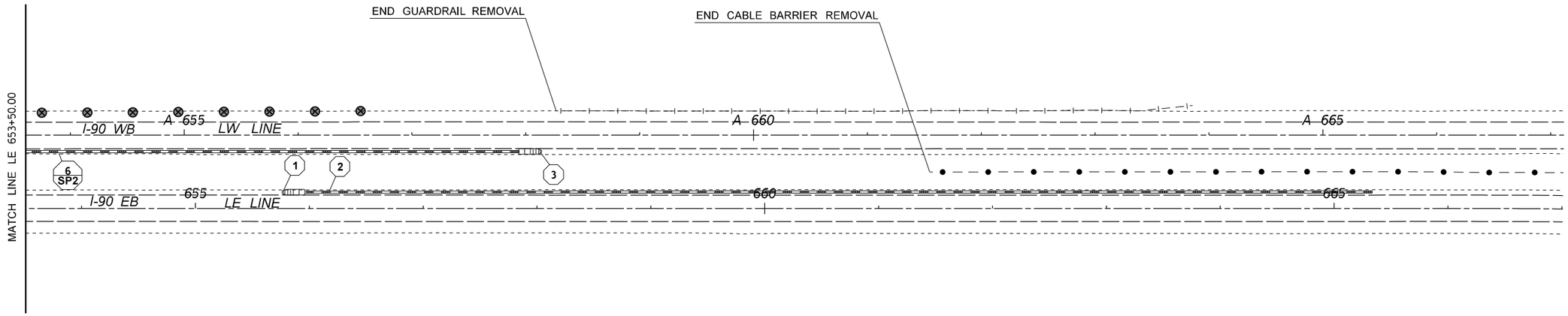
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

STAGING PLAN

Plot 2
PLAN REF NO ST2
SHEET 12 OF 108 SHEETS



LEGEND

----------	EXISTING PAVED EDGE	⊗	TRAFFIC SAFETY DRUM
-|— —|— —|-	EXISTING GUARDRAIL		
- ● — — ●	EXISTING CABLE BARRIER		
▬▬▬	TEMPORARY BARRIER		
▭	TEMPORARY IMPACT ATTENUATOR		

NOTE:

1. STAGING PLAN TO REMAIN IN PLACE DURING DETOUR CONSTRUCTION AND REMOVAL. CONTRACTOR TO REVISE/VERIFY PLAN NECESSARY TO MEET THE NEEDS OF THEIR OPERATION.

2. SEE SHEET QTTP 1 "QUANTITY TABULATION - TEMPORARY PAVING/MARKING PLAN" FOR QUANTITIES.

0 50 100
SCALE IN FEET

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TIME	8:17:06 AM			
DATE	3/25/2022			
PLOTTED BY	thomasb			
DESIGNED BY	S. SIGSWORTH			
ENTERED BY	J. RICHARDSON			
CHECKED BY	B. THOMAS			
PROJ. ENGR.	B. HOOKER			
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 22Y001
CONTRACT NO.

FED.AID PROJ.NO. NHPP-0902(454)
LOCATION NO.

ROBERT E.S. HOOKER — STATE OF WASHINGTON — 16201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

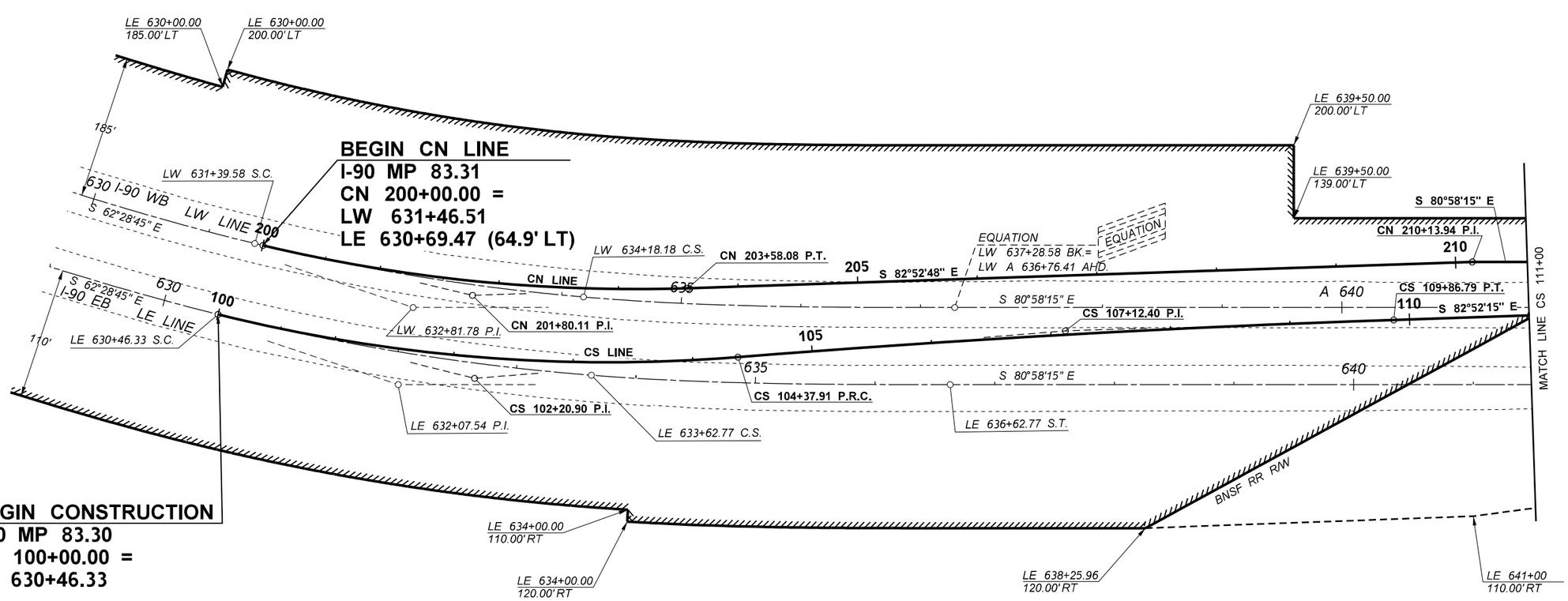
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

STAGING PLAN

Plot 3
PLAN REF NO ST3
SHEET 13 OF 108 SHEETS

T.20N. R15E. W.M.

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
LE 632+07.54	18°29'30" LT.	1910'	461.21'	316.44'	8%
LW 632+81.78	18°29'30" LT.	1825'	452.61'	278.60'	8%
CN 201+80.11	15°18'39" LT.	1340'	180.11'	358.08'	8%
CS 102+20.90	18°35'08" LT.	1350'	220.90'	437.91'	8%
CS 107+12.40	02°41'37" LT.	11675'	274.49'	548.87'	2%



LEGEND

- EXISTING SHOULDER PAVED EDGE
- EXISTING MAINTENANCE EASEMENT
- EXISTING RIGHT OF WAY

0 50 100
SCALE IN FEET

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\080-AlignPlan\XL5987_PS_AL.dgn				REGION NO.	STATE	FED.AID PROJ.NO.	Plot 1
TIME	8:27:40 AM				10	WASH	NHPP-0902(454)	PLAN REF NO AL1
DATE	3/25/2022				JOB NUMBER			
PLOTTED BY	thomasb				22Y001			SHEET 14 OF 108 SHEETS
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.	
ENTERED BY	J. RICHARDSON							
CHECKED BY	B. THOMAS							
PROJ. ENGR.	B. HOOKER							
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY				

BOBBY E.S. HOOKER — STATE OF WASHINGTON — 16201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

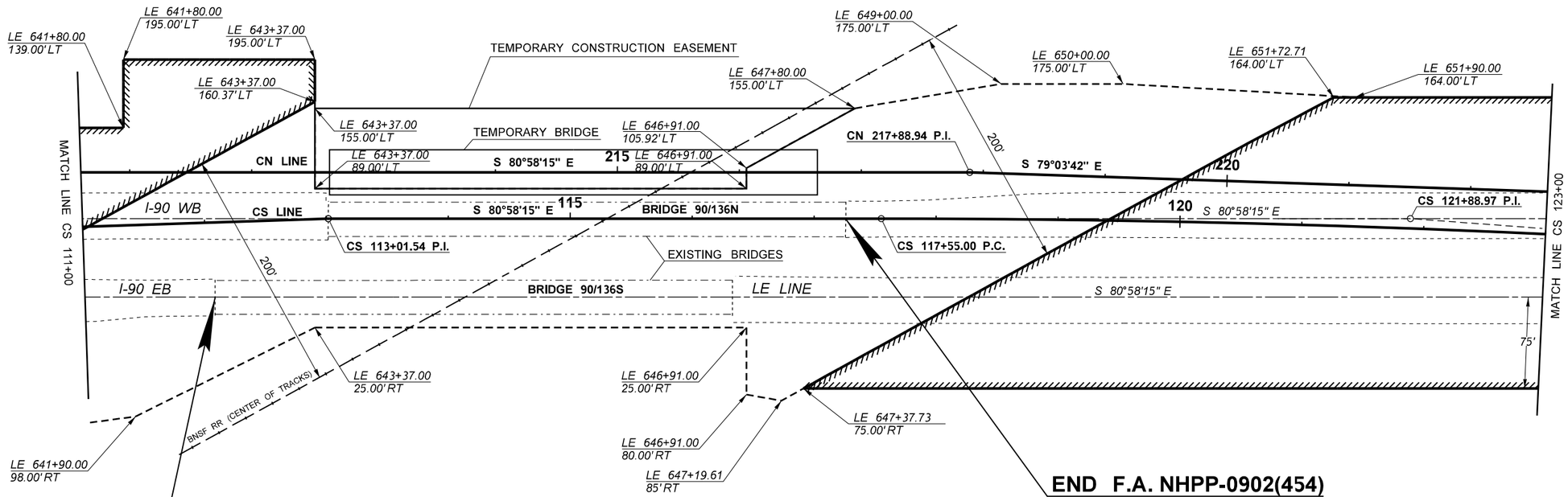
Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

ALIGNMENT & RIGHT OF WAY

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
CS 121+88.97	04°15'27" RT.	11675'	433.97'	867.54'	2%

T.20N. R15E. W.M.



LEGEND

- EXISTING SHOULDER PAVED EDGE
- EXISTING MAINTENANCE EASEMENT
- EXISTING RIGHT OF WAY

0 50 100
SCALE IN FEET

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\080-AlignPlan\XL5987_PS_AL.dgn			
TIME	8:27:47 AM			
DATE	3/25/2022			
PLOTTED BY	thomasb			
DESIGNED BY	S. SIGSWORTH			
ENTERED BY	J. RICHARDSON			
CHECKED BY	B. THOMAS			
PROJ. ENGR.	B. HOOKER			
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 22Y001

CONTRACT NO.

FED.AID PROJ.NO. NHPP-0902(454)

LOCATION NO.

BOBBY E.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

ALIGNMENT & RIGHT OF WAY

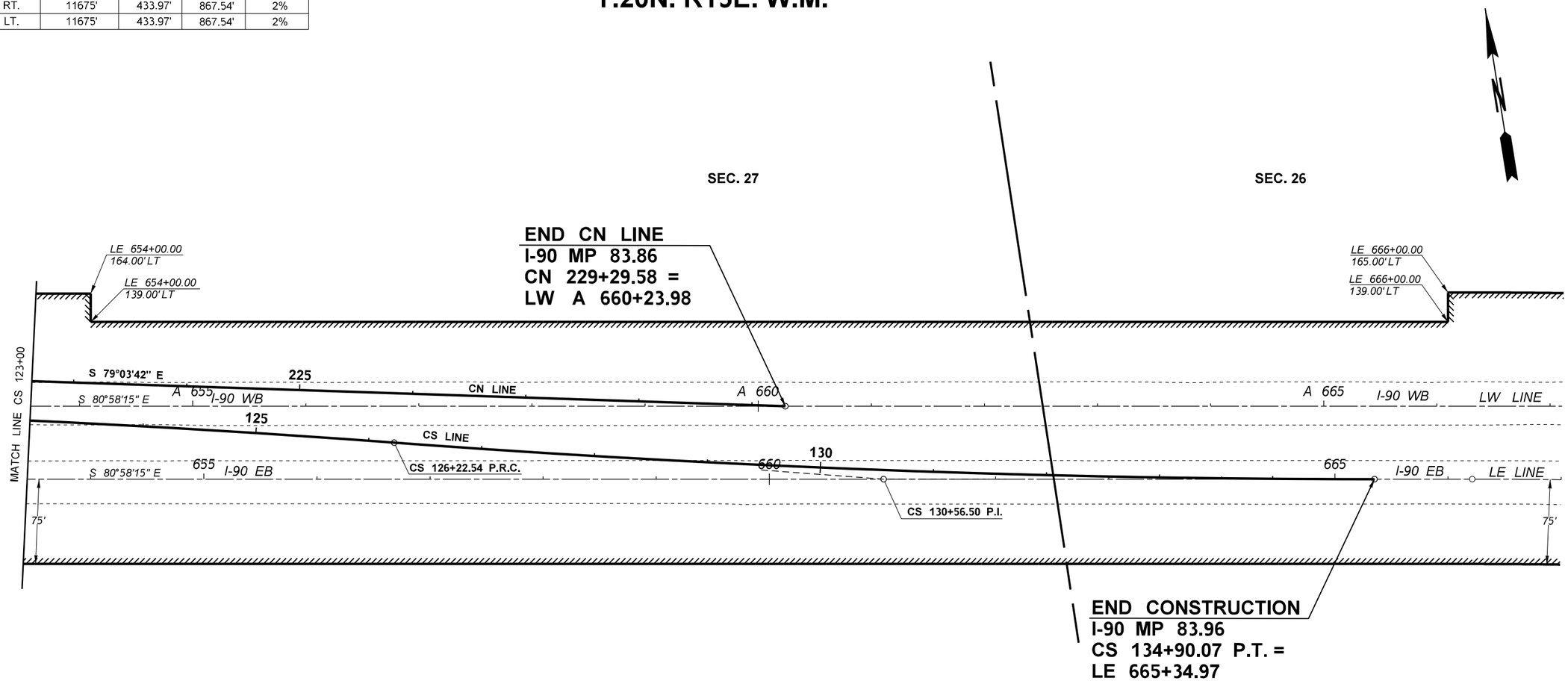
Plot 2

PLAN REF NO AL2

SHEET 15 OF 108 SHEETS

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
CS 121+88.97	04°15'27" RT.	11675'	433.97'	867.54'	2%
CS 130+56.50	04°15'27" LT.	11675'	433.97'	867.54'	2%

T.20N. R15E. W.M.



LEGEND

- EXISTING SHOULDER PAVED EDGE
- EXISTING RIGHT OF WAY
- SECTION LINE

0 50 100
SCALE IN FEET

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\080-AlignPlan\XL5987_PS_AL.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. NHPP-0902(454)	Plot 3
TIME	8:27:53 AM							PLAN REF NO AL3
DATE	3/25/2022				JOB NUMBER 22Y001			
PLOTTED BY	thomasb							SHEET 16 OF 108 SHEETS
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.	
ENTERED BY	J. RICHARDSON							
CHECKED BY	B. THOMAS							
PROJ. ENGR.	B. HOOKER							
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY				

BOBBY B.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

ALIGNMENT & RIGHT OF WAY

QUANTITY TABULATION - SITE PREPARATION

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ⮛ \ UNIT OF MEASURE ➢		REMOVING GUARDRAIL	REMOVING GUARDRAIL ANCHOR		REMOVING PAINT LINE	REMOVING PLASTIC LINE	REMOVING CABLE BARRIER AND RESETTING		INLET PROTECTION	TIRE WASH	SILT FENCE		WATTLES	HIGH VISIBILTY FENCE		SEE GENERAL NOTES
			L.F.	EACH		L.F.	L.F.	L.F.		EACH	EACH	L.F.		L.F.	L.F.		
	LE 630+46 TO LE 665+35					6980	3500										
	LW 631+46 TO LW A 660+24					5860	2940										
SP1-1	LW 631+47 (25' LT)TO LW 633+57 (29' LT)													210			2
SP1-2	LE 635+00 (45' LT)TO LE 642+02 (40' LT)							701									
SP1-3	LW A 638+58 (134' LT) TO LW A 644+19 (37' LT)											790					2
SP1-4	LE 639+56.14 (30.1' RT)									1							1,3
SP1-5	LE 639+75.48 (24.1' LT)									1							1,3
SP1-6	LE 639+75 (16' LT)			1													
SP1-7	LW A 640+09.63 (31.8' LT)									1							1,3
SP1-8	LW A 640+04 (22' LT) TO LW A 643+56 (21' LT)		350	2													
SP2-1	LE 642+36.63(27.1' LT)									1							1,3
SP2-2	LW A 642+66 (17' RT) TO LW A 643+56 (17' RT)		87.5	2													
SP2-3	LE 643+94 (21.6' LT)									1							1,3
SP2-4	LW A 644+30 (7.5' RT)									1							1,3
SP2-5	LW A 644+23.6 (31.5' LT)									1							1,3
SP2-6	LW A 644+00 (110' LT)									1							1,3
SP2-7	LW A 645+40 (90' LT) TO LW A 646+13.38 (27.7' LT)											100					2
SP2-8	LW A 645+63 (91' LT) TO LW A 646+3.38 (27.7' LT)											80					2
SP2-9	LW A 646+54 (27' LT) TO LE 646+94 (83' RT)											340					2
SP2-10	LW A 647+00 (25' LT) TO LW A 660+25 (70' LT)														1380		
SP2-11	LW A 647+84.52 (14.4' LT) TO LW A 658+22 (22.2' LT)		1037.5														
SP2-12	LW A 648+07 (15' RT) TO LW A 651+20 (19' RT)		312.5	1													
SP2-13	LW A 649+98 (64' LT) TO LW A 660+23 (23' LT)													2830			2
SP2-14	LE 650+16 (32' LT) TO LE 661+45 (32' LT)							1129									
SP3-1	LE 656+05										1						2
SP3-2	LE 657+49.32 (32' LT)									1							1,3
SP3-3	LE 664+17 (68' RT) TO LE 665+72 (70' RT)											160					2
	SHEET TOTAL		1787.5	6		12840	6440	1830		9	1	1470		3040	1380		
	PROJECT TOTAL		1787.5	6		12840	6440	1830		see note 3	1	1470		3040	1380		

GENERAL NOTES:

1. SEE SHEET DD1 "DRAINAGE DETAILS".

2. QUANTITIES FOR TIRE WASH, SILT FENCE, AND WATTLES ARE LISTED FOR INFORMATIONAL PURPOSES ONLY, AS THESE ITEMS ARE PAID FOR AS PART OF THE LUMP SUM ITEM " EROSION CONTROL AND WATER POLLUTION PREVENTION".

3. SEE SHEET SNDR 1 "STRUCTURE NOTES - DRAINAGE" FOR "INLET PROTECTION" PROJECT TOTAL.

		DATE	DATE	REVISION	BY
DESIGNED BY	S. SIGWORTH				
ENTERED BY	J. RICHARDSON				
CHECKED BY	B. THOMAS				
PROJ. ENGR.	B. HOOKER				
REGION ADM.	T. TREPANIER				

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	NHPP-0902(454)

JOB NUMBER 22Y001

CONTRACT NO.

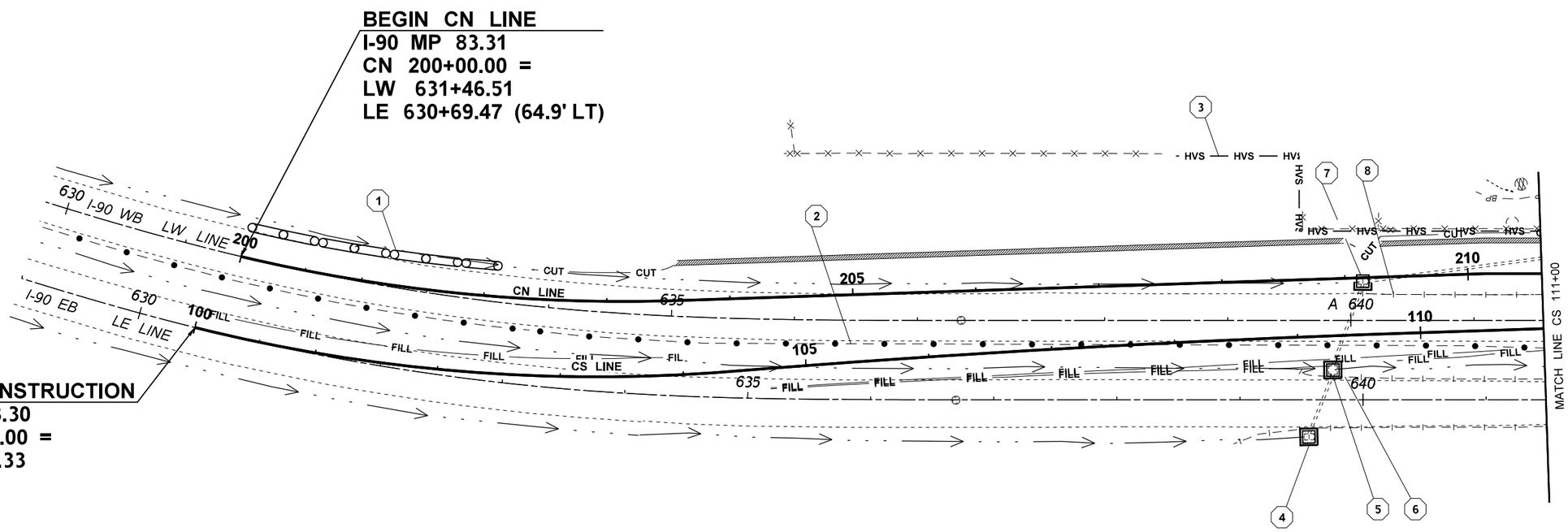
Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGE - DECK REHABILITATION

QUANTITY TABULATION - SITE PREPARATION

QTSP 1

T.20N. R15E. W.M.



LEGEND

	EXISTING WATER VALVE		EXISTING MANHOLE
— BP — —	EXISTING UNDER GROUND POWER		EXISTING MONUMENT CASE AND COVER
—X— —X— ·	EXISTING FENCE	— HVS —	SILT FENCE
● — — ●	EXISTING CABLE BARRIER		WATTLE
——→	EXISTING DITCH		INLET PROTECTION
========:	EXISTING CULVERT		INLET COVER
—I— —I—	EXISTING GUARDRAIL	#	QUANTITY TAB
	EXISTING CATCH BASIN		RETAINING WALL
	EXISTING GRATE INLET		
----------	EXISTING PAVED EDGE		

0 50 100
SCALE IN FEET

NOTES:

1. UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATIONS.
2. SEE SPECIAL PROVISION, "INLET PROTECTION".
3. SEE SPECIAL PROVISION, "EROSION CONTROL AND WATER POLLUTION CONTROL".

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\180-SitePrepUtilities\XL5987_PS_SP_UT.dgn				REGION NO.	STATE	FED.AID PROJ.NO. NHPP-0902(454)
TIME	8:34:58 AM				10	WASH	
DATE	4/21/2022				JOB NUMBER 22Y001		
PLOTTED BY	richaja				CONTRACT NO.		LOCATION NO.
DESIGNED BY	S. SIGSWORTH						
ENTERED BY	J. RICHARDSON						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

BOBBY E.S. HOOKER STATE OF WASHINGTON 36201 REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

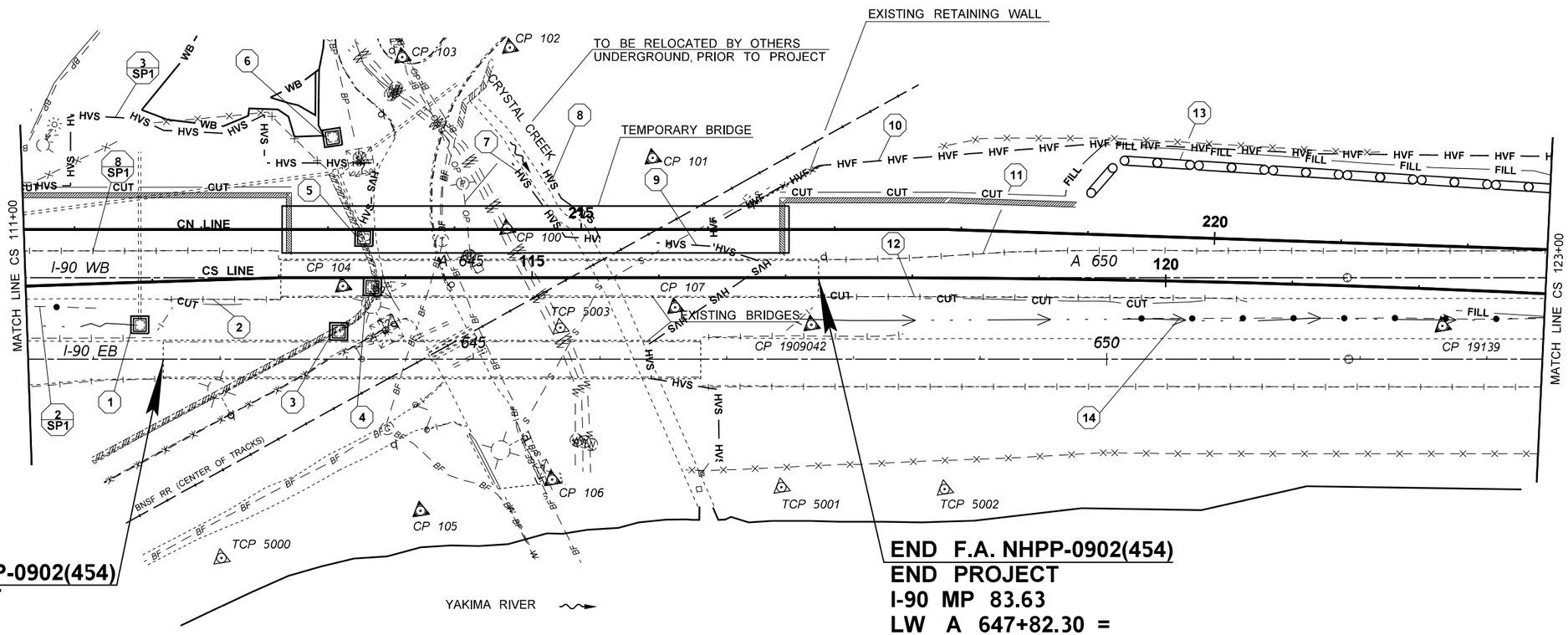
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
SITE PREP/UTILITIES/TESC PLAN

Plot 1
PLAN REF NO **SP1**
SHEET 18 OF 108 SHEETS

T.20N. R15E. W.M.



BEGIN F.A. NHPP-0902(454)
BEGIN PROJECT
I-90 MP 83.53
LE 642+55.20

END F.A. NHPP-0902(454)
END PROJECT
I-90 MP 83.63
LW A 647+82.30 =
LE 647+72.44 (64.4' LT)

LEGEND

EXISTING POWER METER BOX	EXISTING MANHOLE	EXISTING CABLE BARRIER	EXISTING GUIDE POST
EXISTING UNDER GROUND POWER	EXISTING POWER POLE	EXISTING DITCH	EXISTING MONUMENT CASE AND COVER
EXISTING UNDER FIBER	EXISTING LUMINAIRE	EXISTING CULVERT	EXISTING PRIMARY CONTROL
EXISTING ABOVE GROUND POWER	EXISTING CATCH BASIN	EXISTING GUARDRAIL	EXISTING TEMPORARY CONTROL
EXISTING WATER LINE	EXISTING CONTROLLER CABINET	EXISTING PAVED EDGE	SILT FENCE
EXISTING SANITARY SEWER LINE	EXISTING SIGNAL HEAD	EXISTING WING WALL	HIGH VISIBILITY FENCE
EXISTING FIRE HYDRANT	EXISTING JUNCTION BOX	EXISTING WOOD POST	WATTLE
EXISTING LIGHT POLE	EXISTING GATE	EXISTING METAL POST	INLET PROTECTION
EXISTING GUY ANCHOR/WIRE	EXISTING CANTILEVER	EXISTING WATER EDGE	WETLAND BOUNDARY
EXISTING CATCH BASIN	EXISTING SINGLE GATE	EXISTING RETAINING WALL	QUANTITY TAB
EXISTING WATER VALVE	EXISTING SIGN	EXISTING HEAD WALL TOP	QUANTITY TAB CONTINUED
EXISTING TELEPHONE MANHOLE	EXISTING FENCE	EXISTING WING WALL TOP	RETAINING WALL

NOTES:

1. UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATIONS.
2. INTERSECTION LIGHTING MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. SEE SPECIAL PROVISION "ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, INTELLIGENT TRANSPORTATION SYSTEMS, AND ELECTRICAL".
3. SEE SPECIAL PROVISION, "INLET PROTECTION".
4. SEE SPECIAL PROVISION, "EROSION CONTROL AND WATER POLLUTION CONTROL".

0 50 100
SCALE IN FEET

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\180-SitePrepUtilities\XL5987_PS_SP_UT.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. NHPP-0902(454)
TIME	8:43:22 AM						
DATE	3/25/2022				JOB NUMBER 22Y001		
PLOTTED BY	thomasb						
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. RICHARDSON						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

BOBBY E.S. HOOKER — STATE OF WASHINGTON — 16201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1 DATE
P.E. STAMP BOX

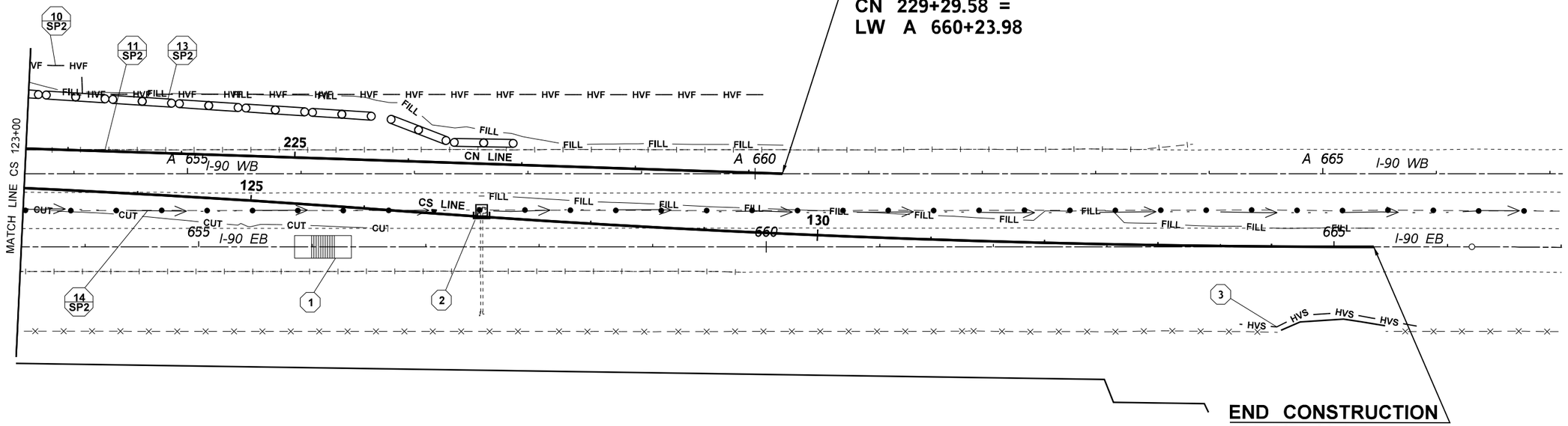
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
SITE PREP/UTILITIES/TESC PLAN

Plot 2
PLAN REF NO SP2
SHEET 19 OF 108 SHEETS

T.20N. R15E. W.M.



LEGEND

–x– –x– ·	EXISTING FENCE	— HVF —	HIGH VISIBILITY FENCE
● — — ●	EXISTING CABLE BARRIER		WATTLE
⟶	EXISTING DITCH		INLET PROTECTION
========:	EXISTING CULVERT		INLET COVER
–I– –I–	EXISTING GUARDRAIL	#	QUANTITY TAB
	EXISTING CATCH BASIN	??? ??	QUANTITY TAB CONTINUED
----------	EXISTING PAVED EDGE		TIRE WASH
— HVS —	SILT FENCE		

0 50 100
SCALE IN FEET

NOTES:

1. UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATIONS.
2. SEE SPECIAL PROVISION, "INLET PROTECTION".
3. CONTRACTOR TO RELOCATE TIRE WASH AS REQUIRED.
4. SEE SPECIAL PROVISION, "EROSION CONTROL AND WATER POLLUTION CONTROL".

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\180-SitePrepUtilities\XL5987_PS_SP_UT.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:43:29 AM				10	WASH	NHPP-0902(454)
DATE	3/25/2022				JOB NUMBER		
PLOTTED BY	thomasb				22Y001		
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. RICHARDSON						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

BOBBY E.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE
P.E. STAMP BOX

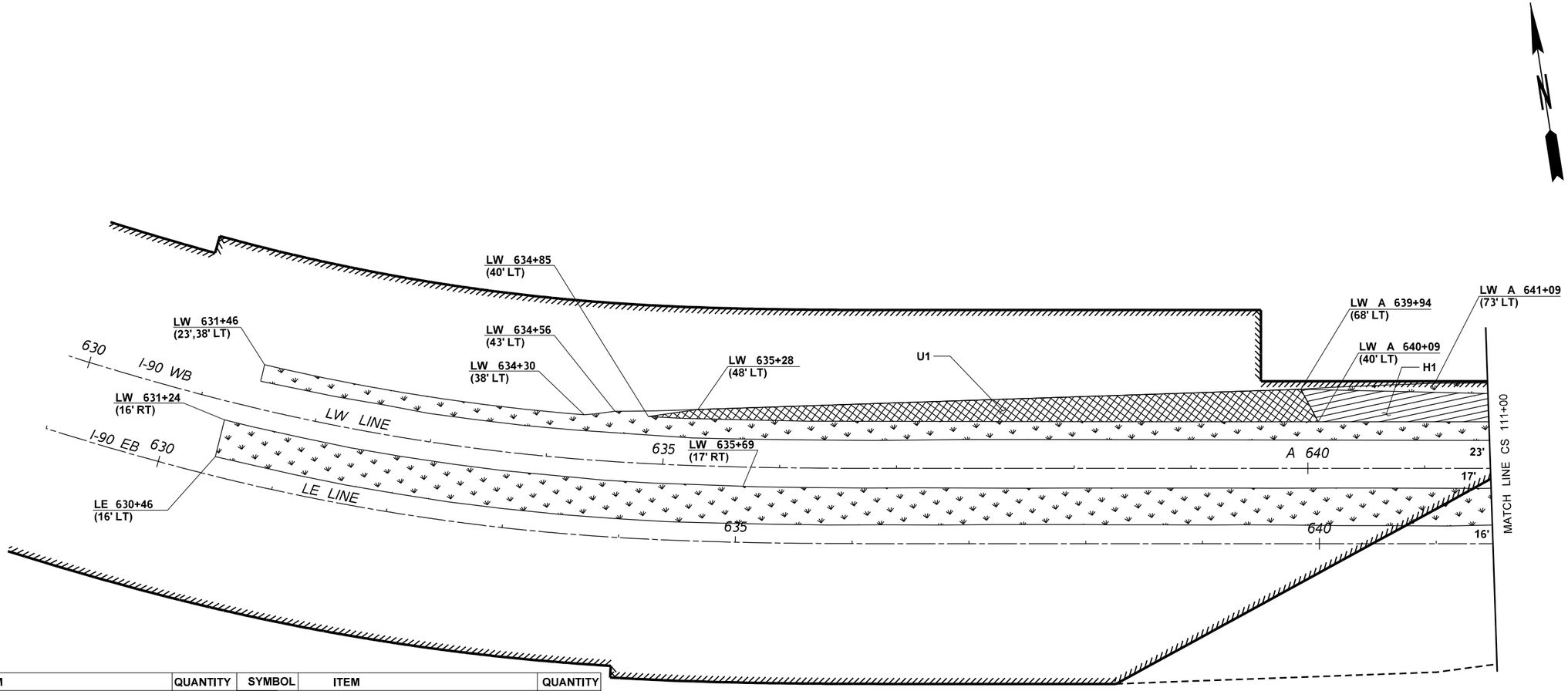
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

SITE PREP/UTILITIES/TESC PLAN

Plot 3
PLAN REF NO SP3
SHEET 20 OF 108 SHEETS



SYMBOL	ITEM	QUANTITY
	UPLAND MIX - 10' O.C. SPACING	U1
	DOUGLAS MAPLE	10
	DOUGLAS FIR	10
	PONDEROSA PINE	10
	DOUGLAS HAWTHORN	10
	BLUE ELDERBERRY	9
	CALIFORNIA HAZELNUT	8
	WOODS ROSE	8
	SNOWBERRY	8
	TALL OREGON GRAPE	8
	GREEN RABBITBRUSH	8
	GOLDEN CURRANT	8
	BARK OR WOOD CHIP MULCH (SY) - 3 IN. DEPTH	1120
	MEDIUM COMPOST (SY) - 6 IN. DEPTH	1120

SYMBOL	ITEM	QUANTITY
	HEDGE MIX - SPACING AS SHOWN	H1
	DOUGLAS MAPLE	5
	DOUGLAS FIR	5
	PONDEROSA PINE	5
	DOUGLAS HAWTHORN	5
	BLUE ELDERBERRY	5
	CALIFORNIA HAZELNUT	5
	WOODS ROSE	25
	SNOWBERRY	25
	TALL OREGON GRAPE	25
	GREEN RABBITBRUSH	25
	GOLDEN CURRANT	25
	ORANGE HONEYSUCKLE	2
	BARK OR WOOD CHIP MULCH (SY) - 3 IN. DEPTH	440
	MEDIUM COMPOST (SY) - 6 IN. DEPTH	440
	COMPOST, SEEDING & MULCHING (AC)	1.20

0 50 100
SCALE IN FEET

LEGEND

EXISTING MAINTENANCE EASEMENT

EXISTING RIGHT OF WAY

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\220-LandscapePlan\XL5987_PS_LS.dgn
TIME	10:17:46 AM
DATE	3/25/2022
PLOTTED BY	thomasb
DESIGNED BY	S. SIGSWORTH
ENTERED BY	J. RICHARDSON
CHECKED BY	B. THOMAS
PROJ. ENGR.	B. HOOKER
REGIONAL ADM.	T. TREPANIER

REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 22Y001
CONTRACT NO.

FED.AID PROJ.NO.
NHPP-0902(454)
LOCATION NO.

BOBBY E.S. HOOKER — STATE OF WASHINGTON — 24201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

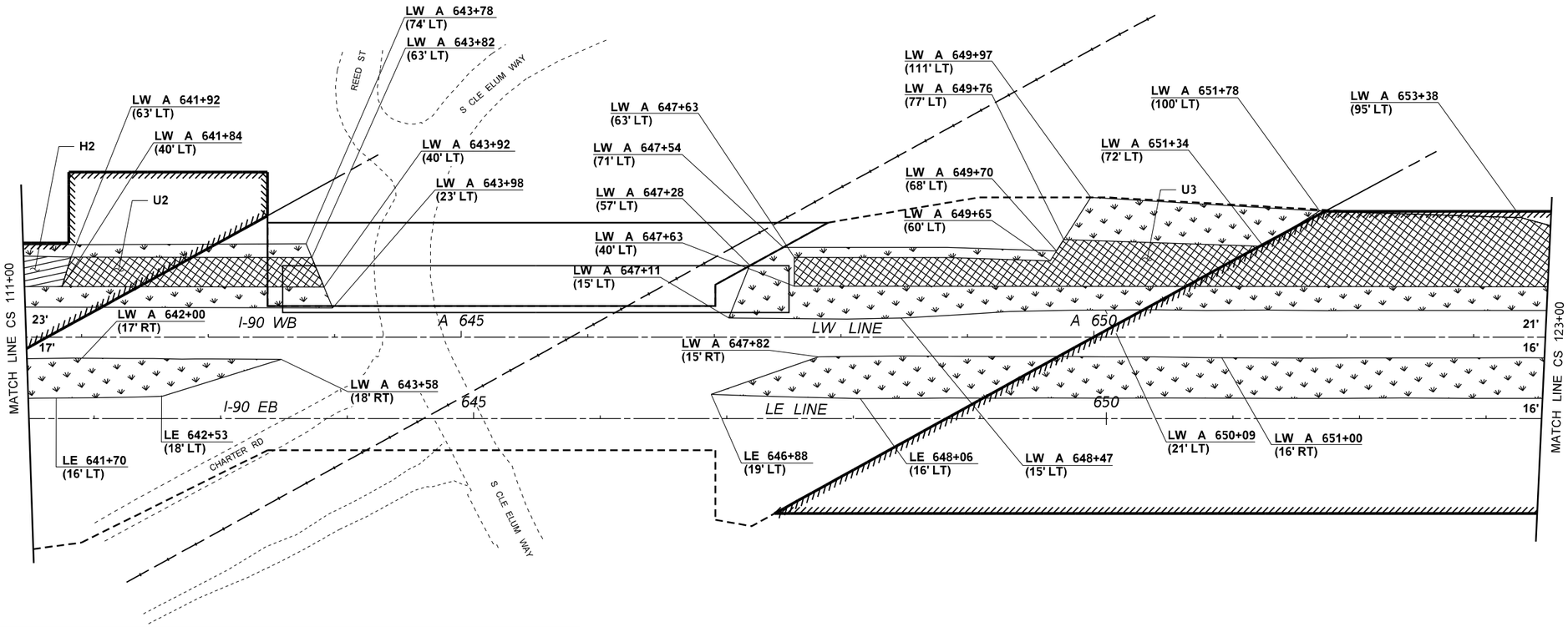
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

LANDSCAPE PLAN

Plot 1
PLAN REF NO
LS1
SHEET 21 OF 108 SHEETS



SYMBOL	ITEM	QUANTITY U2	QUANTITY U3
	UPLAND MIX - 10' O.C. SPACING		
	DOUGLAS MAPLE	4	20
	DOUGLAS FIR	4	20
	PONDEROSA PINE	4	20
	DOUGLAS HAWTHORN	4	20
	BLUE ELDERBERRY	4	20
	CALIFORNIA HAZELNUT	4	20
	WOODS ROSE	4	19
	SNOWBERRY	4	19
	TALL OREGON GRAPE	4	19
	GREEN RABBITBRUSH	4	19
	GOLDEN CURRANT	4	19
BARK OR WOOD CHIP MULCH (SY) - 4 IN. DEPTH		520	2510
MEDIUM COMPOST (SY) - 6 IN. DEPTH		520	2510

SYMBOL	ITEM	QUANTITY H2
	HEDGE MIX - SPACING AS SHOWN	
	DOUGLAS MAPLE	0
	DOUGLAS FIR	1
	PONDEROSA PINE	1
	DOUGLAS HAWTHORN	1
	BLUE ELDERBERRY	1
	CALIFORNIA HAZELNUT	0
	WOODS ROSE	4
	SNOWBERRY	4
	TALL OREGON GRAPE	4
	GREEN RABBITBRUSH	4
	GOLDEN CURRANT	4
	ORANGE HONEYSUCKLE	1
BARK OR WOOD CHIP MULCH (SY) - 3 IN. DEPTH		90
MEDIUM COMPOST (SY) - 6 IN. DEPTH		90
COMPOST, SEEDING & MULCHING (AC)		1.20

0 50 100
SCALE IN FEET

LEGEND

- EXISTING MAINTENANCE EASEMENT
- EXISTING RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\220-LandscapePlan\XL5987_PS_LS.dgn
TIME	10:17:52 AM
DATE	3/25/2022
PLOTTED BY	thomasb
DESIGNED BY	S. SIGSWORTH
ENTERED BY	J. RICHARDSON
CHECKED BY	B. THOMAS
PROJ. ENGR.	B. HOOKER
REGIONAL ADM.	T. TREPANIER

REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 22Y001
CONTRACT NO.
FED.AID PROJ.NO. NHPP-0902(454)
LOCATION NO.

BOBBY E.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

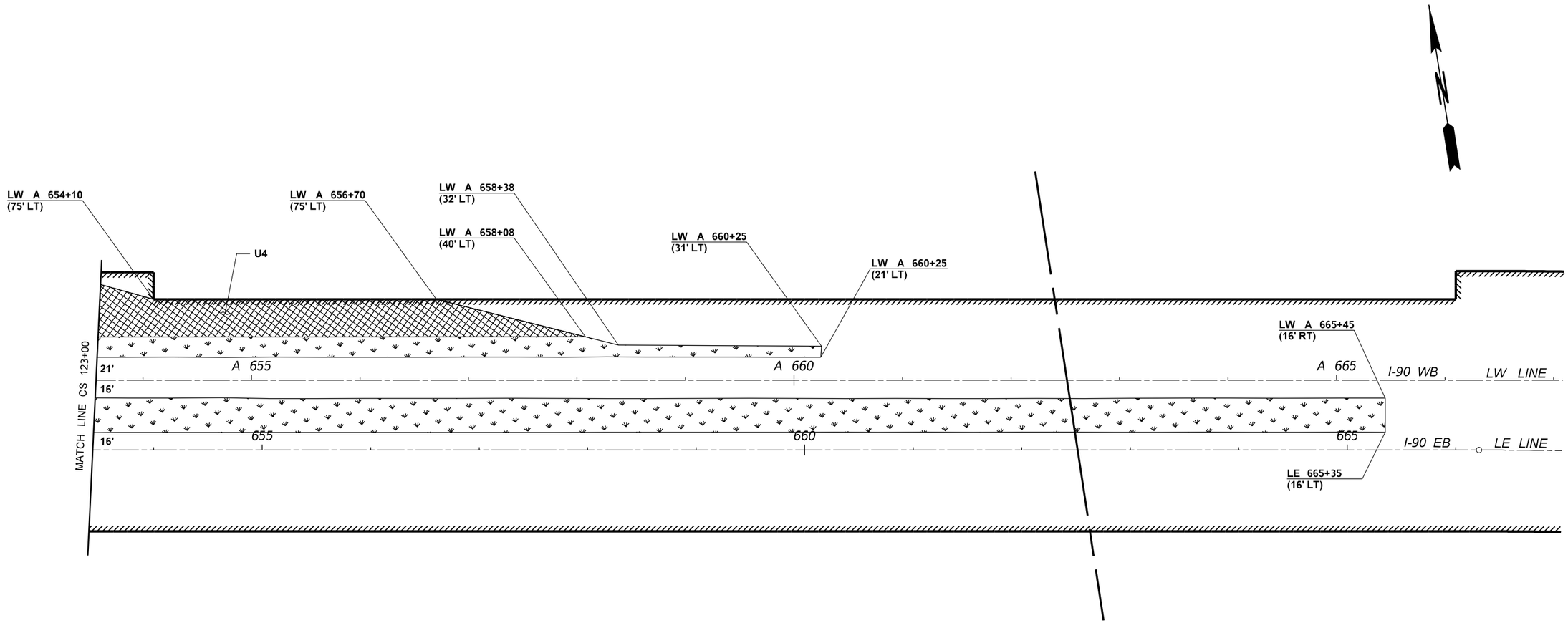
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

LANDSCAPE PLAN

Plot 1
PLAN REF NO LS2
SHEET 22 OF 108 SHEETS



SYMBOL	ITEM	QUANTITY
	UPLAND MIX - 10' O.C. SPACING	U4
	DOUGLAS MAPLE	12
	DOUGLAS FIR	12
	PONDEROSA PINE	12
	DOUGLAS HAWTHORN	12
	BLUE ELDERBERRY	12
	CALIFORNIA HAZELNUT	12
	WOODS ROSE	12
	SNOWBERRY	12
	TALL OREGON GRAPE	12
	GREEN RABBITBRUSH	11
	GOLDEN CURRANT	10
	BARK OR WOOD CHIP MULCH (SY) - 3 IN. DEPTH	1510
	MEDIUM COMPOST (SY) - 6 IN. DEPTH	1510
	COMPOST, SEEDING & MULCHING (AC)	1.10

0 50 100
SCALE IN FEET

LEGEND

EXISTING RIGHT OF WAY

SECTION LINE

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\220-LandscapePlan\XL5987_PS_LS.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	10:17:58 AM				10	WASH	NHPP-0902(454)
DATE	3/25/2022				JOB NUMBER		
PLOTTED BY	thomasb				22Y001		
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. RICHARDSON						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

ROBERT B.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

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I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

LANDSCAPE PLAN

Plot 3

PLAN REF NO
LS3

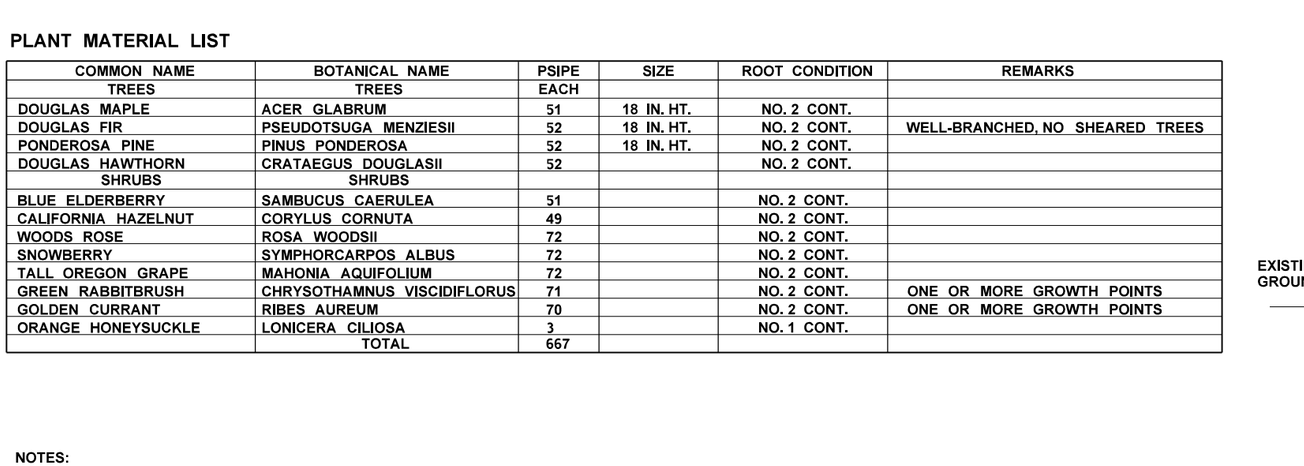
SHEET 23 OF 108 SHEETS

PLANT MATERIAL LIST

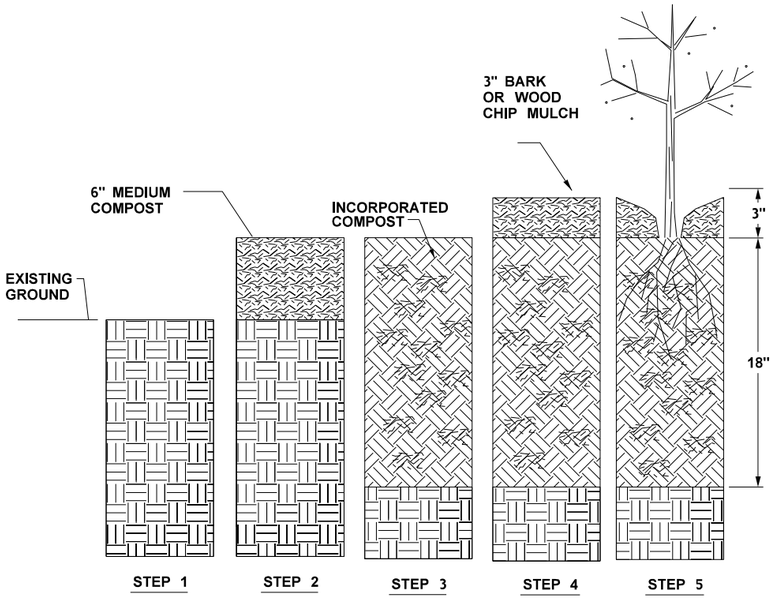
COMMON NAME	BOTANICAL NAME	PSIPE	SIZE	ROOT CONDITION	REMARKS
TREES	TREES	EACH			
DOUGLAS MAPLE	ACER GLABRUM	51	18 IN. HT.	NO. 2 CONT.	
DOUGLAS FIR	PSEUDOTSUGA MENZIESII	52	18 IN. HT.	NO. 2 CONT.	WELL-BRANCHED, NO SHEARED TREES
PONDEROSA PINE	PINUS PONDEROSA	52	18 IN. HT.	NO. 2 CONT.	
DOUGLAS HAWTHORN	CRATAEGUS DOUGLASII	52		NO. 2 CONT.	
SHRUBS	SHRUBS				
BLUE ELDERBERRY	SAMBUCUS CAERULEA	51		NO. 2 CONT.	
CALIFORNIA HAZELNUT	CORYLUS CORNUTA	49		NO. 2 CONT.	
WOODS ROSE	ROSA WOODSII	72		NO. 2 CONT.	
SNOWBERRY	SYMPHORCARPOS ALBUS	72		NO. 2 CONT.	
TALL OREGON GRAPE	MAHONIA AQUIFOLIUM	72		NO. 2 CONT.	
GREEN RABBITBRUSH	CHRYSOTHAMNUS VISCIDIFLORUS	71		NO. 2 CONT.	ONE OR MORE GROWTH POINTS
GOLDEN CURRANT	RIBES AUREUM	70		NO. 2 CONT.	ONE OR MORE GROWTH POINTS
ORANGE HONEYSUCKLE	LONICERA CILIOSA	3		NO. 1 CONT.	
	TOTAL	667			

NOTES:

1. IF A CONFLICT OCCURS BETWEEN THE AMERICAN STANDARD FOR NURSERY STOCK AND THESE SPECIFICATIONS THEN THESE SPECIFICATIONS SHALL APPLY.
2. SPECIFICATIONS FOR SIZE AND CONDITION ARE MINIMUM.
3. ALL PLANT MATERIALS SHALL BE NURSERY GROWN STOCK.
4. PLANTS SHALL BE RANDOMLY MIXED THROUGHOUT EACH PLANTING ZONE AS APPROVED BY THE ENGINEER. SEE SCHEDULE FOR MIN. GROUPINGS OF EACH SPECIES.
5. ALL TREES REQUIRING STAKING SHALL BE STAKED AND SECURED WITHIN 48 HOURS AFTER PLANTING.
6. ALL TREE/SHRUB PLANTINGS SHALL BE SETBACK A MIN. OF 5 FEET FROM ALL PAVEMENT EDGES.



HEDGE MIX LAYOUT
PLAN VIEW
NOT TO SCALE



STEP 1
PREPARE PLANTING AREA IN ACCORDANCE WITH SECTION 8-02.3(5)C.

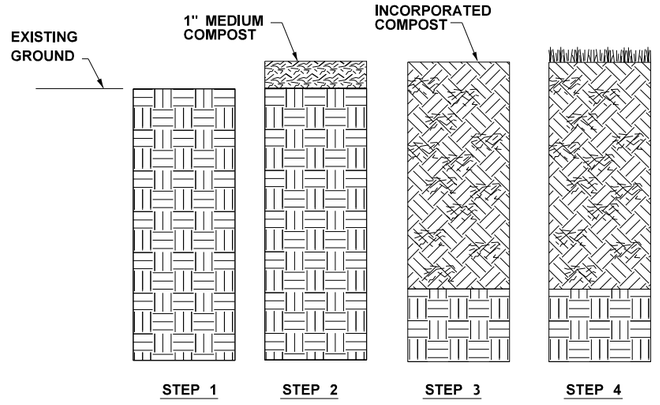
STEP 2
PLACE 6" DEPTH MEDIUM COMPOST IN ACCORDANCE WITH THE SPECIAL PROVISION "ROADSIDE SEEDING, LAWN AND PLANTING AREA PREPARATION".

STEP 3
INCORPORATE COMPOST INTO 12" OF EXISTING SOIL IN ACCORDANCE WITH THE SPECIAL PROVISION "ROADSIDE SEEDING, LAWN AND PLANTING AREA PREPARATION".

STEP 4
INSTALL BARK OR WOOD CHIP MULCH 3" DEEP (SEE PLANTING DETAIL IN STANDARD PLAN H-10.10).

STEP 5
INSTALL PLANT (SEE PLANTING DETAIL IN STANDARD PLAN H-10.10).

PLANTING AREA SOIL PREPARATION - SEQUENCE OF WORK
SECTION VIEW
NOT TO SCALE



SEEDING AREA SOIL PREPARATION - SEQUENCE OF WORK
SECTION VIEW
NOT TO SCALE

STEP 1
PREPARE SEEDING AREAS IN ACCORDANCE WITH SECTION 8-02.3(5)A.

STEP 2
PLACE 1" MEDIUM COMPOST.

STEP 3
INCORPORATE MEDIUM COMPOST BY TRACKWALKING INTO SOIL.

STEP 4
INSTALL SEED AND MULCH IN ACCORDANCE WITH SECTION 8-02.3(11)A.

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\220-LandscapePlan\XL5987_PS_LS.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
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PLOTTED BY	thomasb				22Y001		
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. RICHARDSON						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

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DATE
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I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

LANDSCAPE PLAN

Plot 4
PLAN REF NO
LS4
SHEET 24 OF 108 SHEETS

STRUCTURE NOTES - DRAINAGE

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE.

THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ⮟ \ UNIT OF MEASURE ➢	REMOVING CONNECTION TO DRAINAGE STRUCTURE	QUARRY SPALLS	CATCH BASIN TYPE 1	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.		UNDERDRAIN PIPE 6 IN. DIAM.	DRAIN PIPE 6 IN. DIAM.		GRAVEL BACKFILL FOR DRAIN	CONSTRUCTION GEOTEXTILE FOR PERMANENT EROSION CONTROL	CONNECTION TO DRAINAGE STRUCTURE		INLET PROTECTION	STRUCTURE EXCAVATION CLASS B INCL. HAUL		SEE GENERAL NOTES
		EACH	C.Y.	EACH	L.F.		L.F.	L.F.		C.Y.	S.Y.	EACH		EACH	C.Y.		
DR1-1	CS 103+46 (17.1' LT) TO CS 104+85 (13' LT)			1	138									1	62		3
DR1-2	CS 104+85 (13' LT) TO CS 105+30 (13' LT)			1	45									1	20		3
DR1-3	CS 105+30 (13' LT) TO CS 105+50 (13' LT)			1	20									1	8		3
DR1-4	CS 105+50 (13' LT) TO CS 109+28 (27.8' RT)	1		1	380							1		1	172		3
DR1-5	CN 209+15.21(18.5' LT) TO CN 209+14.5 (2.8' RT)	1		1	21							1		1	9		2, 3
DR1-6	CN 209+30 (11' LT) TO CN 212+53 (18' RT)						368			11	164				31		2
DR1-7	CN 209+30 (29' LT) TO CN 212+71 (29' LT)		25								152				25		2
DR2-1	CN 210+75 (14' LT) TO CN 212+15 (30' LT)				160										73		2,7
DR2-2	CN 211+51 (13' LT) TO CN 211+51 (35' LT)				30										14		2,7
DR2-3	CN 211+51 (13' LT) TO CN 211+51 (35' LT)				24										24		6,7,8
DR2-4	CN 210+75 (14' LT) TO CN 212+15 (30' LT)				142										184		6,7,8
DR2-5	CN 212+53 (25' LT) TO CN 212+53 (35' LT)							10							1		1
DR2-6	CN 212+53 (34' LT) TO CN 212+53 (49' LT)		3								14				3		4
DR2-7	CN 212+61 (21' RT) TO CN 212+76 (21' LT)		3								14				3		4,5
DR2-8	CN 216+57 (25' LT) TO CN 218+90 (25' LT)		17								110				17		2
DR2-9	CN 216+75 (20' RT) TO CN 218+90 (21' LT)						258			8	115				22		2
DR2-10	CN 218+90 (21' LT) TO CN 218+90 (31' LT)							10							1		1
DR2-11	CN 218+90 (30' LT) TO CN 218+90 (45' LT)		3								14				3		4
DR3-1	CS 125+00 (18.3' RT) TO CS 125+60 (16.90' RT)			1	60									1	26		3
DR3-2	CS 125+60 (16.9' RT) TO CS 125+75 (16.5' RT)			1	15									1	6		3
DR3-3	CS 125+75 (16.5' RT) TO CS 127+03.40 (5.6' LT)	1		1	130							1		1	58		3
	FROM QTSP1													9			9
	SHEET TOTAL	3	51	8	1165		626	20		19	583	3		17	762		
	PROJECT TOTAL	3	51	8	1165		626	20		19	583	3		17	762		

GENERAL NOTES:

1. 6" DRAIN PIPE SHALL DAYLIGHT TO SLOPE.

2. SEE SHEET DD1 "QUARRY SPALLS SECTION DETAILS".

3. SEE "QUANTITY TABULATION - SITE PREPARATION" FOR ADDITIONAL QUANTITIES.

4. SEE SHEET DD1 "SPLASH PAD".

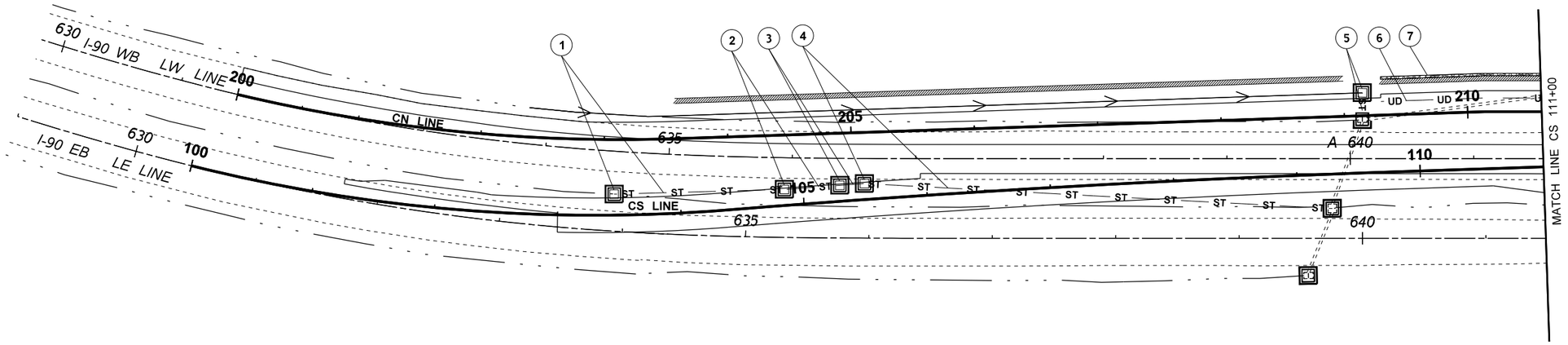
5. NO PIPE INCLUDED WITH SPLASH PAD

6. PIPES THAT ARE RESTORED AFTER DETOUR REMOVAL.

7. STATIONS AND OFFSETS ARE APPROXIMATE.

8. QUANTITIES FOR "STRUCTURE EXCAVATION CLASS B INCL. HAUL" ARE THE TOTAL FOR REMOVAL OF EXISTING PIPE AND INSTALLATION OF NEW REPLACEMENT PIPE.

9. SHEET TOTAL FROM QTSP 1 "QUANTITY TABULATION - SITE PREPARATION" IS ADDED TO SHEET TOTAL AND PROJECT TOTAL SHOWN ON THIS SHEET.



LEGEND

EXISTING DITCH	INLET COVER
EXISTING CULVERT	STRUCTURE NOTE
EXISTING CATCH BASIN	SCHEDULE A STORM SEWER PIPE
EXISTING GRATE INLET	6" UNDERDRAIN PIPE
EXISTING PAVED EDGE	CATCH BASIN
PAVED EDGE	QUARRY SPALLS
CONSTRUCTION ALIGNMENT	RETAINING WALL
INLET PROTECTION	

NOTES:

1. SEE SHEET DD1 "INLET PROTECTION" FOR INLET PROTECTION DETAILS.
2. SEE SHEET DD1 "QUARRY SPALLS SECTION DETAIL" FOR QUARRY SPALLS DETAILS.
3. SEE SPECIAL PROVISION "INLET PROTECTION".

0 50 100
SCALE IN FEET

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\130-DrainagePlan\XL5987_PS_DR.dgn				REGION NO.	STATE	FED.AID PROJ.NO. NHPP-0902(454)
TIME	8:28:31 AM				10	WASH	
DATE	4/21/2022				JOB NUMBER 22Y001		
PLOTTED BY	richaja				CONTRACT NO.		LOCATION NO.
DESIGNED BY	S. SIGSWORTH						
ENTERED BY	J. RICHARDSON						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

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DATE
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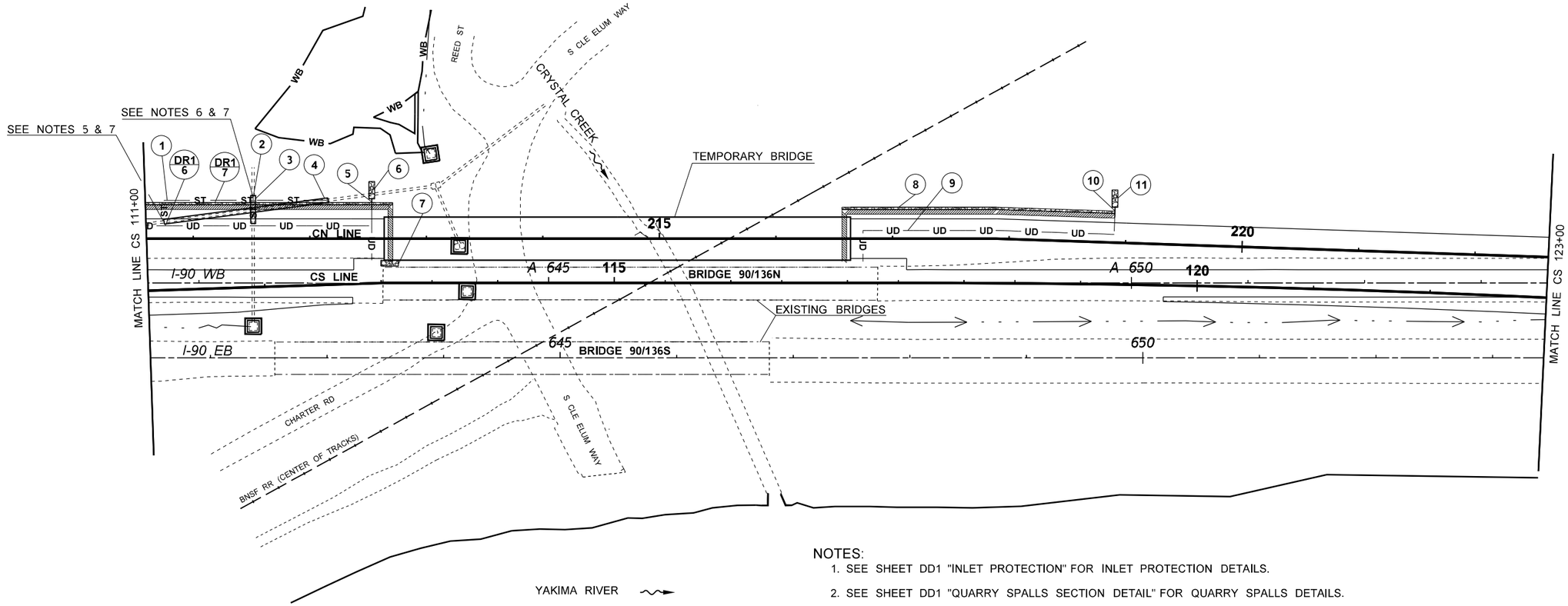
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
DRAINAGE PLAN

Plot 1
PLAN REF NO **DR1**
SHEET 26 OF 108 SHEETS



LEGEND

- EXISTING DITCH
- EXISTING CULVERT
- EXISTING CATCH BASIN
- EXISTING GRATE INLET
- EXISTING PAVED EDGE
- PAVED EDGE
- CONSTRUCTION ALIGNMENT
- WETLAND BOUNDARY
- INLET PROTECTION
- STRUCTURE NOTE
- STRUCTURE NOTE CONTINUED
- ST — SCHEDULE A STORM SEWER
- UD — 6" UNDERDRAIN PIPE
- DP — 6" DRAIN PIPE
- ST — SCHEDULE A STORM SEWER PIPE
- CATCH BASIN
- QUARRY SPALLS
- RETAINING WALL

NOTES:

1. SEE SHEET DD1 "INLET PROTECTION" FOR INLET PROTECTION DETAILS.
2. SEE SHEET DD1 "QUARRY SPALLS SECTION DETAIL" FOR QUARRY SPALLS DETAILS.
3. SEE SPECIAL PROVISION "INLET PROTECTION".
4. SEE SHEET DD1 "SPLASH PAD" FOR SPLASH PAD DETAILS.
5. CUT AND REMOVE EXISTING PIPE AT CONFLICT POINT AT BACK OF WALL REINFORCEMENT ZONE. CONNECT BYPASS DRAINAGE PIPE OUT OF WALL FACE. EXTEND BYPASS DRAINAGE PARALLEL TO WALL FACE AND REESTABLISH CONNECTION TO EXISTING PIPE IN THE VICINITY OF CN 212+15 (30' LT).
6. CUT AND REMOVE EXISTING PIPE AT CONFLICT POINT AT BACK OF WALL REINFORCEMENT ZONE. CONNECT BYPASS DRAINAGE PIPE OUT TO WALL FACE. REESTABLISH CONNECTION TO EXISTING PIPE IN THE VICINITY OF CN 211+51 (35' LT).
7. EXISTING PIPES THAT ARE REMOVED SHALL BE REPLACED AND RESTORED BACK TO EXISTING CONDITION AFTER DETOUR REMOVAL (DR2-3, DR2-4).
8. BYPASS DRAINAGE CONNECTIONS TO BE DESIGNED BY CONTRACTOR, SEE SPECIAL PROVISION, "BYPASS DRAINAGE".

0 50 100
SCALE IN FEET

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DATE	3/25/2022				JOB NUMBER		
PLOTTED BY	thomasb				22Y001		
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. RICHARDSON						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

BOBBY E.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE
P.E. STAMP BOX

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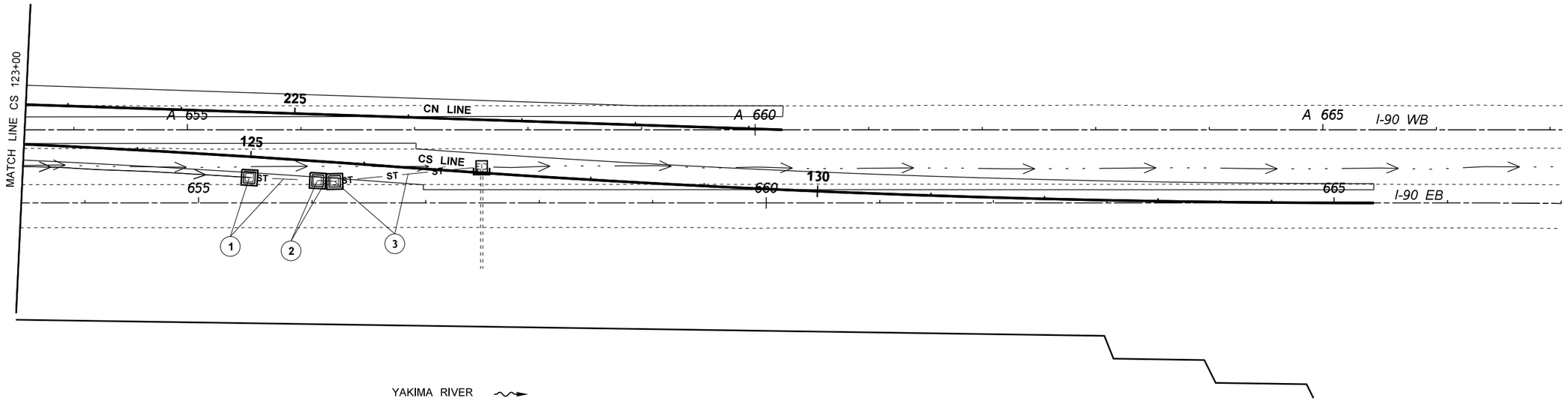
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

DRAINAGE PLAN

Plot 2
PLAN REF NO DR2
SHEET 27 OF 108 SHEETS



LEGEND

- EXISTING DITCH
- EXISTING CULVERT
- EXISTING CATCH BASIN
- EXISTING GRATE INLET
- EXISTING PAVED EDGE
- PAVED EDGE
- CONSTRUCTION ALIGNMENT
- INLET COVER
- ?? STRUCTURE NOTE
- ST SCHEDULE A STORM SEWER PIPE
- CATCH BASIN

NOTES:

1. SEE SHEET DD1 "INLET PROTECTION" FOR INLET PROTECTION DETAILS.
2. SEE SPECIAL PROVISION "INLET PROTECTION".

0 50 100
SCALE IN FEET

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\130-DrainagePlan\XL5987_PS_DR.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
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PLOTTED BY	richaja				22Y001		
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REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

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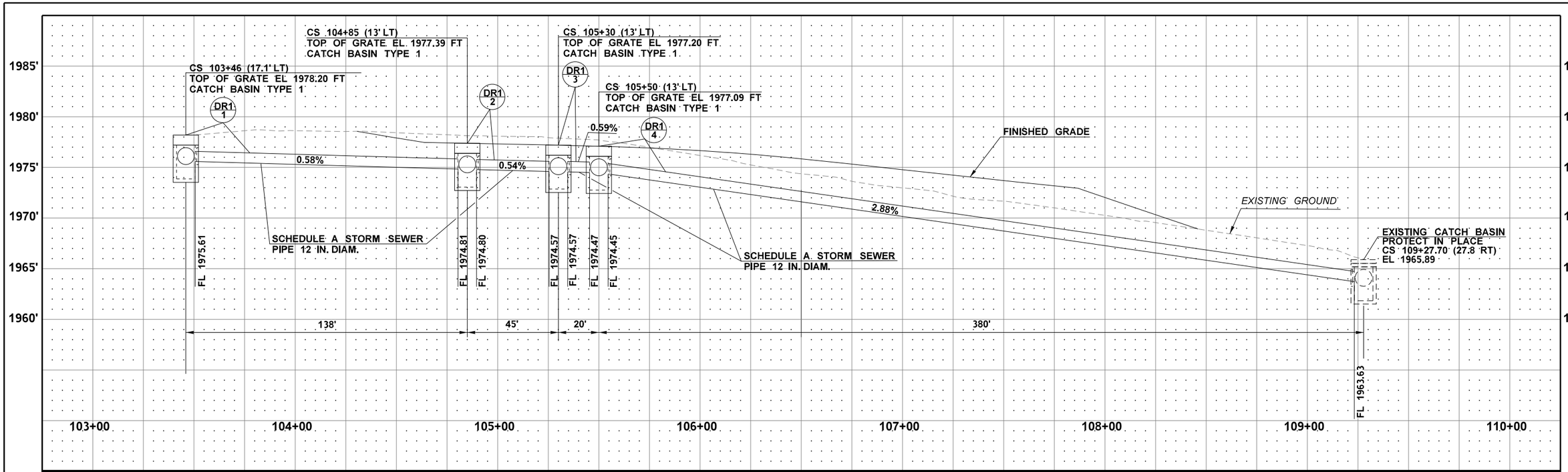
S CLE ELUM RD BRIDGES - DECK REHABILITATION

DRAINAGE PLAN

Plot 3
PLAN REF NO DR3
SHEET 28 OF 108 SHEETS



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PLOTTED BY	richaja				22Y001		
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.
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CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

BOBBY E.S. HOOKER STATE OF WASHINGTON 16201 REGISTERED PROFESSIONAL ENGINEER

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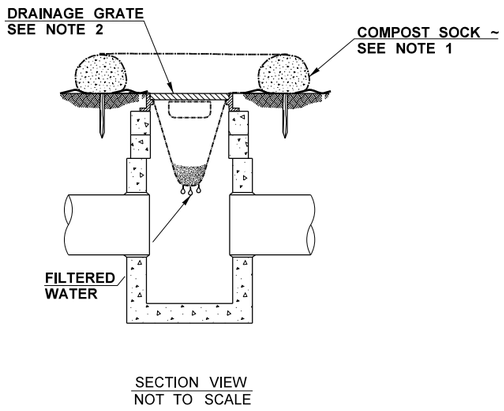
DRAINAGE PROFILE

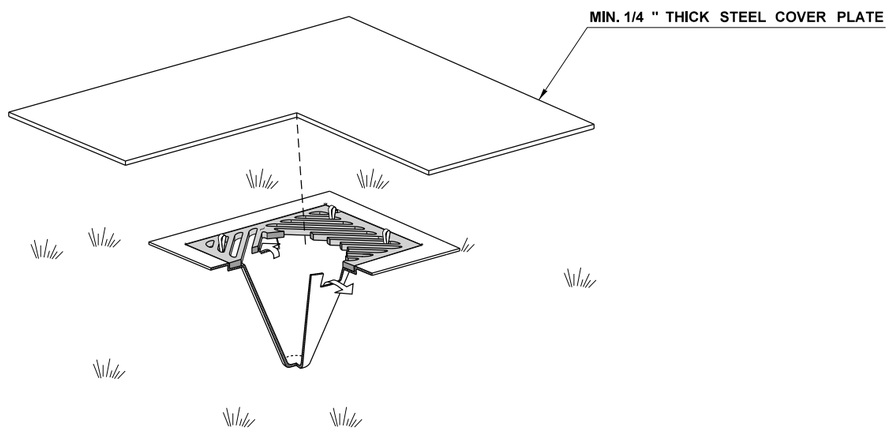
Plot 2

PLAN REF. NO. DP1

SHEET 29 OF 108 SHEETS



SECTION VIEW
NOT TO SCALE



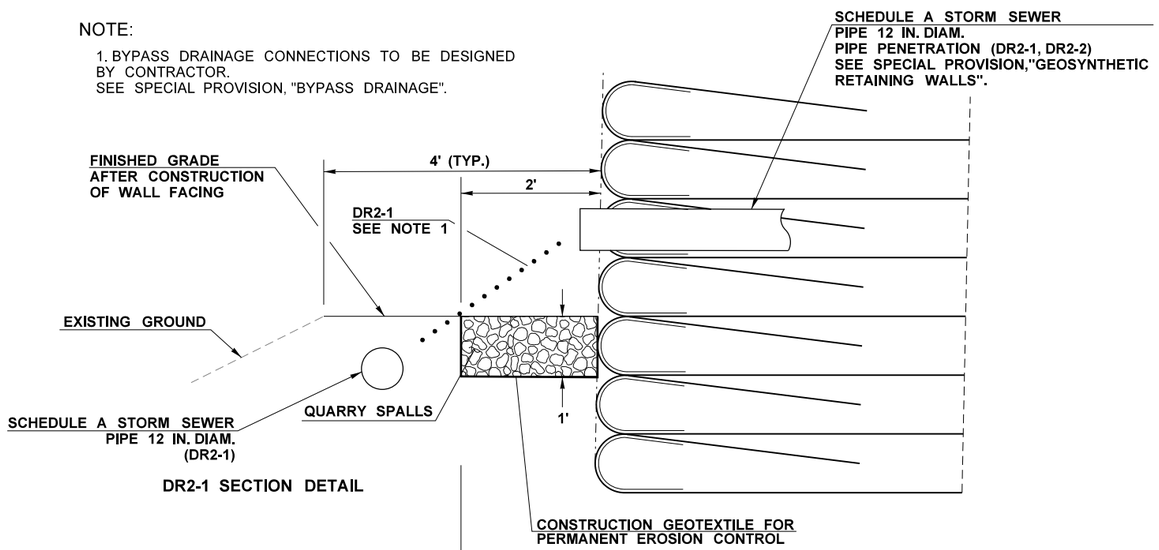
ISOMETRIC VIEW
NOT TO SCALE

NOTES
1. SEE STANDARD PLAN I-30.40
2. SEE STANDARD PLAN I-40.20

INLET PROTECTION

NOT TO SCALE

NOTE:
1. BYPASS DRAINAGE CONNECTIONS TO BE DESIGNED BY CONTRACTOR.
SEE SPECIAL PROVISION, "BYPASS DRAINAGE".



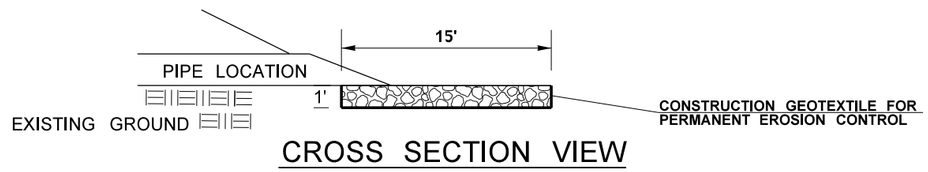
DR2-1 SECTION DETAIL

WALL B 20+00.00 TO B 23+42
WALL C 30+00.00 TO C 32+34

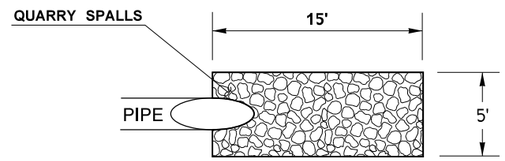
DR2-2 SECTION DETAIL

QUARRY SPALLS SECTION AND TEMPORARY BYPASS DRAINAGE DETAIL

NOT TO SCALE



CROSS SECTION VIEW



PLAN VIEW SPLASH PAD

SPLASH PAD

NOT TO SCALE

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REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

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I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

DRAINAGE DETAILS

Plot 4
PLAN REF NO DD1
SHEET 30 OF 108 SHEETS

ROADWAY SECTION C

DATUM

(NAVD) 88

CS 103+73.41
BEGIN TRANSITION

8.00% RT

PROFILE GRADE & PIVOT POINT

CS LINE

2.00% RT

-2.00% LT

-8.00% LT

CS 105+88.41
LEVEL CROWN

CS 106+42.16
END TRANSITION

1990
1980
1970
1960

VPI 100+00.00
EL 1988.06

-2.26%

VPI 102+00.00
EL 1983.53

-2.56%

BVC 102+90.00
EL 1981.23

220' VC

VPI 104+00.00
EL 1978.42

EVC 105+10.00
EL 1977.34

-0.98%

BVC 106+00.00
EL 1976.46

VPI 107+00.00
EL 1975.48

EVC 108+00.00
EL 1973.36

VPI 111+00.00
EL 1966.99

-2.12%

EXISTING GROUND LINE

CS LINE

200' VC

ROADWAY EXCAVATION INCL. HAUL 370 CY

EMBANKMENT COMPACTION 670 CY

CLEARING AND GRUBBING .8 ACRE (APPROXIMATE)

100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00 109+00 110+00 111+00

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\120-RdwyProf\XL5987_PS_RP.dgn				REGION NO.	STATE	FED.AID PROJ.NO.	Plot 1
TIME	11:18:34 AM				10	WASH	NHPP-0902(454)	PLAN REF. NO. RP1
DATE	3/25/2022				JOB NUMBER			
PLOTTED BY	thomasb				22Y001			
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.	
ENTERED BY	C. HOLMAN							
CHECKED BY	B. THOMAS							
PROJ. ENGR.	B. HOOKER							
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY				

ROBBY E.S. HOOKER — STATE OF WASHINGTON — 16207 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

ROADWAY PROFILES

SHEET 31 OF 108 SHEETS

ROADWAY SECTION C

DATUM

(NAVD) 88

CS LINE

2.00% LT

-2.00% RT

VPI 111+00.00
EL 1966.99

-2.12%

VPI 113+00.00
EL 1962.75

-2.29%

VPI 118+00.00
EL 1951.28

-2.36%

VPI 123+00.00
EL 1939.47

CS LINE

EXISTING GROUND LINE

1970
1960
1950
1940
1930
1920

ROADWAY EXCAVATION INCL. HAUL 260 CY

EMBANKMENT COMPACTION 260 CY

CLEARING AND GRUBBING .6 ACRE (APPROXIMATE)

111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\120-RdwyProf\XL5987_PS_RP.dgn				REGION NO.	STATE	FED.AID PROJ.NO.	Plot 2
TIME	11:18:45 AM				10	WASH	NHPP-0902(454)	PLAN REF. NO. RP2
DATE	3/25/2022				JOB NUMBER			
PLOTTED BY	thomasb				22Y001			
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.	
ENTERED BY	C. HOLMAN							
CHECKED BY	B. THOMAS							
PROJ. ENGR.	B. HOOKER							
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY				

ROBBY E.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

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DATE

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Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

ROADWAY PROFILES

SHEET 32 OF 108 SHEETS

ROADWAY SECTION C

DATUM

(NAVD) 88

2.00% LT

-2.00% RT

CS LINE

2.00% RT

-2.00% LT

CS 124+90.00
BEGIN TRANSITION

CS 125+95.00
LEVEL CROWN

CS 127+00.00
END TRANSITION

CS 133+80.07
BEGIN TRANSITION

CS 134+35.07
LEVEL CROWN

CS 134+90.07
END TRANSITION

CS 134+90.07
END TRANSITION

1950

1940

1930

1920

1910

VPI 123+00.00
EL 1939.47

-2.36%

VPI 124+50.00
EL 1935.93

-1.93%

EXISTING GROUND LINE

300' VC

BVC 131+00.00
EL 1923.36

VPI 132+50.00
EL 1920.46

EVC 134+00.00
EL 1919.07

-0.92%

VPI 134+90.07
EL 1918.24

CS LINE

ROADWAY EXCAVATION INCL. HAUL 430 CY

EMBANKMENT COMPACTION 630 CY

CLEARING AND GRUBBING .9 ACRE (APPROXIMATE)

123+00 124+00 125+00 126+00 127+00 128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\120-RdwyProf\XL5987_PS_RP.dgn							Plot 3
TIME	11:18:55 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. NHPP-0902(454)	PLAN REF. NO. RP3
DATE	3/25/2022							
PLOTTED BY	thomasb				JOB NUMBER 22Y001			SHEET 33 OF 108 SHEETS
DESIGNED BY	S. SIGSWORTH							
ENTERED BY	C. HOLMAN				CONTRACT NO.		LOCATION NO.	
CHECKED BY	B. THOMAS							
PROJ. ENGR.	B. HOOKER							
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY				

ROBERT E.S. HOOKER — STATE OF WASHINGTON — 36200 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

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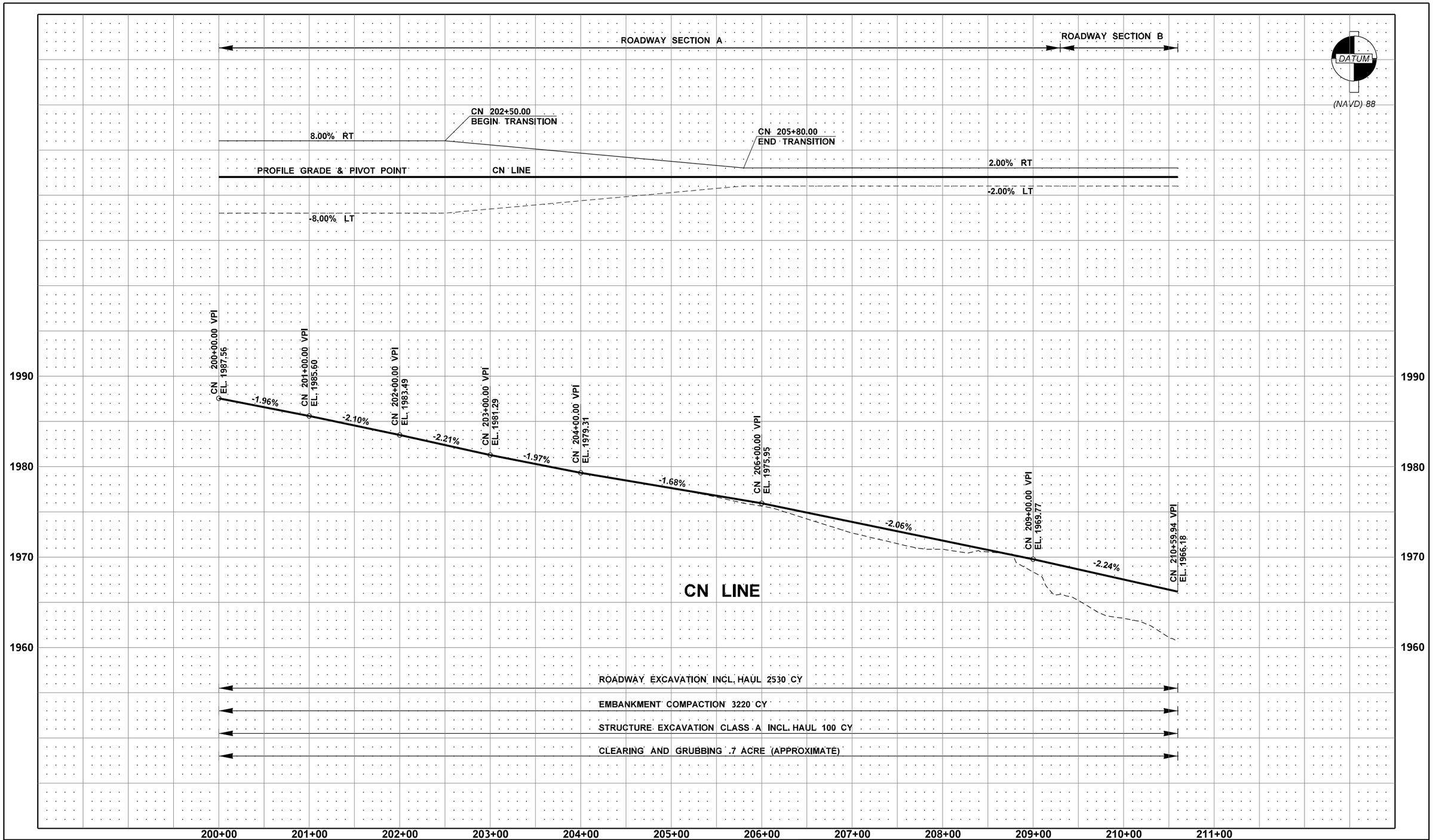
DATE

P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

ROADWAY PROFILES



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TIME	11:19:06 AM							PLAN REF. NO. RP4
DATE	3/25/2022				JOB NUMBER 22Y001			
PLOTTED BY	thomasb							SHEET 34 OF 108 SHEETS
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.	
ENTERED BY	J. RICHARDSON							
CHECKED BY	B. THOMAS							
PROJ. ENGR.	B. HOOKER							
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY				

ROBBY E.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER

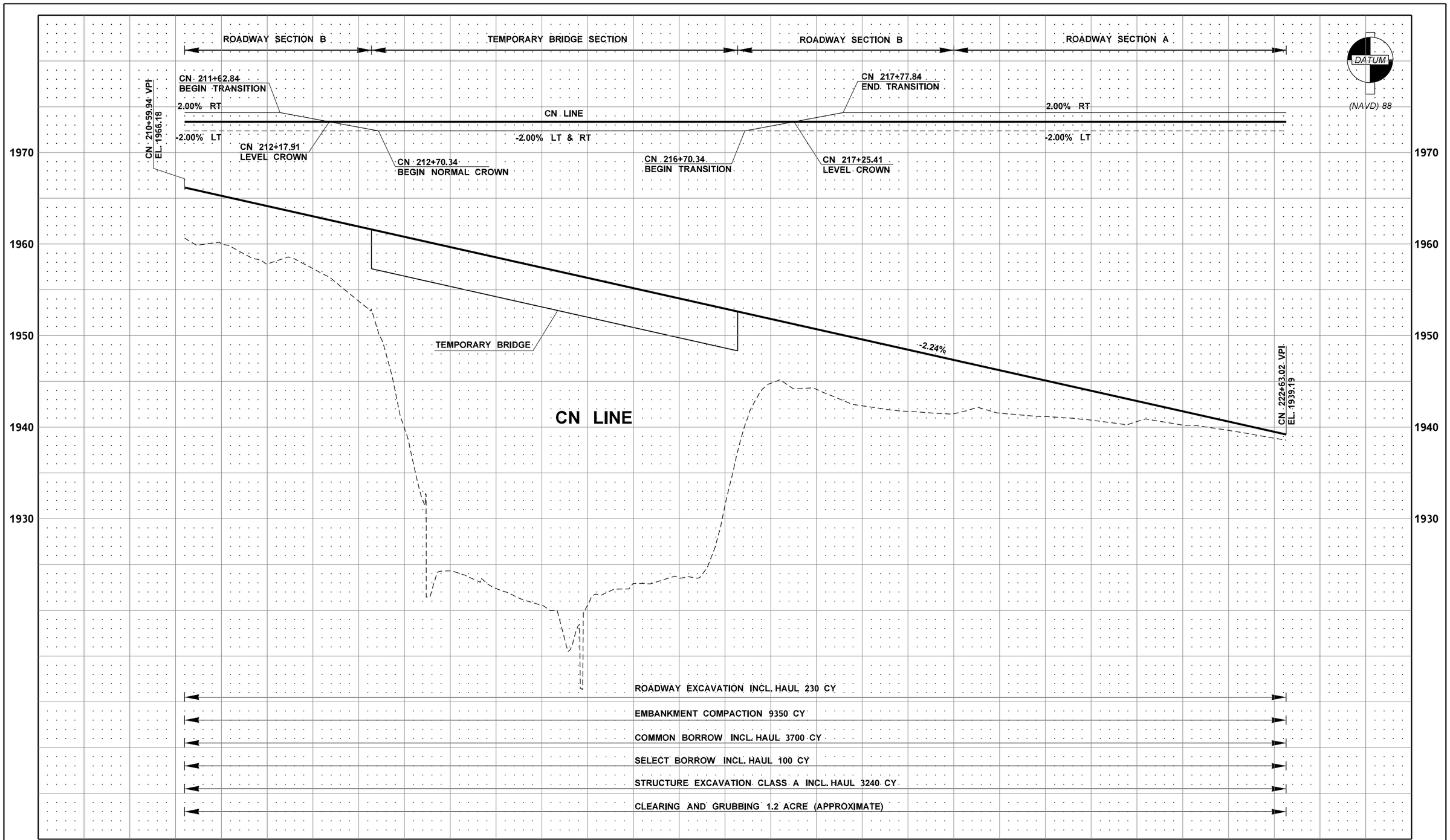
SEE SHEET CT1 — DATE — P.E. STAMP BOX

DATE — P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

ROADWAY PROFILES



FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\120-RdwyProf\XL5987_PS_RP.dgn				REGION NO.	STATE	FED.AID PROJ.NO.		Plot 12
TIME	11:19:16 AM				10	WASH	NHPP-0902(454)		PLAN REF. NO. RP5
DATE	3/25/2022				JOB NUMBER				
PLOTTED BY	thomasb				22Y001				
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.		SHEET 35 OF 108 SHEETS
ENTERED BY	J. RICHARDSON								
CHECKED BY	B. THOMAS								
PROJ. ENGR.	B. HOOKER								
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY					

ROBBY E.S. HOOKER — STATE OF WASHINGTON — 16200 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
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Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

ROADWAY PROFILES

ROADWAY SECTION A

DATUM

(NAVD) 88

2.00% RT

CN LINE

-2.00% LT

CN 222+63.02 VPI
EL. 1939.19

-2.24%

CN 228+00.00 VPI
EL. 1927.15

-1.98%

CN 229+29.58 VPI
EL. 1924.58

CN LINE

1940
1930
1920

222+00 223+00 224+00 225+00 226+00 227+00 228+00 229+00 230+00

ROADWAY EXCAVATION INCL. HAUL 240 CY

EMBANKMENT COMPACTION 1460 CY

COMMON BORROW INCL. HAUL 100 CY

SELECT BORROW INCL. HAUL 1120 CY

CLEARING AND GRUBBING .6 ACRE (APPROXIMATE)

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\120-RdwyProf\XL5987_PS_RP.dgn				REGION NO.	STATE	FED.AID PROJ.NO. NHPP-0902(454)
TIME	11:19:26 AM				10	WASH	
DATE	3/25/2022				JOB NUMBER		
PLOTTED BY	thomasb				22Y001		
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. RICHARDSON						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

ROBBY E.S. HOOKER — STATE OF WASHINGTON — 16200 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

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Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

ROADWAY PROFILES

Plot 13

PLAN REF. NO. RP6

SHEET 36 OF 108 SHEETS

QUANTITY TABULATION - TEMPORARY PAVING/MARKING PLAN

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ⮟ \ UNIT OF MEASURE ⮞	CEMENT CONCRETE PAVMENT GRINDING (S.Y.)	BEAM GUARDRAIL TRANSITION SECTION TYPE 21 (EACH)	TEMPORARY BARRIER (L.F.)	TEMPORARY IMPACT ATTENUATOR (EACH)	RESETTING IMPACT ATTENUATOR (EACH)	TEMPORARY PAVEMENT MARKING - LONG DURATION (L.F.)	LDS BARRIER DELINEATOR (EACH)	SEE GENERAL NOTES
	STAGING PLAN								
ST1-1	LE 630+48 (14.5' LT.) TO LE 630+68 (14.5' LT)				1				1
ST1-2	LE 630+68 (14.5' LT.) TO LE 635+46 (14' LT)			475				76	6,8
ST1-3	LW A 636+98 (14' RT.) TO LW A 643+33 (15.5' RT)			687.5				110	6,8
ST1-4	LW A 641+08 (14' LT.) TO LW A 643+33 (14' LT)			225				36	5,8
ST2-1	LW A 643+33 (14' LT.) TO LW A 643+58 (14.5' LT)		1						
ST2-2	LW A 643+33 (15.5' RT.) TO LW A 643+58 (15.5' RT)		1						
ST2-3	LW A 647+82 (15.5' RT.) TO LW A 648+07 (14' RT)		1						
ST2-4	LW A 647+82 (14.5' LT.) TO LW A 648+07 (14' LT)		1						
ST2-5	LW A 648+07 (14' LT.) TO LW A 652+07 (19' LT)			400				64	5,8
ST2-6	LW A 648+07 (14' RT.) TO LW A 657+94 (14.5' RT)			987.5				158	6,8
ST2-7	LW A 652+07 (19' LT.) TO LW A 652+27 (19' LT)				1				1
ST3-1	LE 655+76 (14' LT.) TO LE 655+96 (14' LT)				1				1
ST3-2	LE 655+96 (14' LT.) TO LE 665+34 (14.5' LT)			937.5				150	6,8
ST3-3	LW A 657+94 (14.5' RT.) TO LW A 658+14 (14.5' RT)				1				1
	TEMPORARY PAVING/MARKING PLAN								
	CS 100+00 TO CS 134+90						10470		
	CN 200+00 TO CN 229+30						8790		
TP1-1	CS 103+00 (14' RT.) TO CS 103+46 (14' RT)	77							
TP1-2	CN 203+30 (15' RT.) TO CN 203+50 (15' RT)					1			1
TP1-3	CN 203+50 (15' RT.) TO CN 210+12 (24.5' RT)			662.5				106	6,8
TP1-4	CN 209+30 (15' LT.) TO CN 212+63 (15' LT)			337.5				54	2,3,5,8
TP2-1	CS 111+31 (19' RT.) TO CS 111+51 (19' RT)					1			1
TP2-2	CS 111+51 (19' RT.) TO CS 112+76 (15' RT)			125				20	5,8
TP2-3	CN 216+64 (15' LT.) TO CN 227+39 (15.8' LT)			1075				172	2,5,8
TP2-4	CN 216+64 (15' RT.) TO CS 132+02 (15' LT)			1500				480	4,7,8
TP3-1	CN 227+39 (15.8' LT.) TO CN 227+64 (16' LT)		1						9
	1ST WINTER SHUTDOWN								
1WS1							6500		
1WS1-1	CS 101+88 (15' LT) TO CS 102+08 (12' LT)					1			1
1WS1-2	CS 102+08 (12' LT) TO CS 105+58 (17' RT)			350				56	6,8
	SHEET TOTAL	77	5	7762.5	4	3	25760	1482	

GENERAL NOTES:

1. SEE SPECIAL PROVISION "IMPACT ATTENUATOR SYSTEMS".

2. USE TEMPORARY BARRIER (PINNED)

3. SEE STANDARD PLAN C-24.10. TYPE C CONNECTION.

4. USE TEMPORARY BARRIER (PINNED) FROM CS 126+45 TO CS 132+00.

5. WHITE LDS BARRIER DELINEATOR.

6. YELLOW LDS BARRIER DELINEATOR.

7. BOTH SIDES YELLOW LDS BARRIER DELINEATOR.

8. SEE SPECIAL PROVISION, "LDS BARRIER DELINEATORS".

9. SEE STANDARD PLAN C-24.10. TYPE D CONNECTION.

		DATE	DATE	REVISION	BY
DESIGNED BY	S. SIGSWORTH				
ENTERED BY	J. RICHARDSON				
CHECKED BY	B. THOMAS				
PROJ. ENGR.	B. HOOKER				
REGION ADM.	T. TREPANIER				

REGION NO.	**STATE**	**FED. AID PROJ. NO.**
10	WASH	NHPP-0902(454)
JOB NUMBER 22Y001		
CONTRACT NO.		

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

QUANTITY TABULATION - TEMPORARY PAVING/MARKING PLAN

QTTP 1

QUANTITY TABULATION - TEMPORARY PAVING/MARKING PLAN

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ↓ \ UNIT OF MEASURE →		CEMENT CONCRETE PAVMENT GRINDING		BEAM GUARDRAIL TRANSITION SECTION TYPE 21	TEMPORARY BARRIER	TEMPORARY IMPACT ATTENUATOR		RESETTING IMPACT ATTENUATOR	TEMPORARY PAVEMENT MARKING - LONG DURATION	LDS BARRIER DELINEATOR						SEE GENERAL NOTES
			S.Y.		EACH	L.F.	EACH		EACH	L.F.	EACH						
1WS1-3	CN 203+50 (06.5' LT) TO CN 210+12 (24' RT)					662.5					106						5,8
1WS1-4	CS 105+52 (16' LT) TO CS 112+76 (13' RT)					725					116						6,8
1WS2										7200							
1WS2-1	CS 117+28 (14' LT) TO CS 117+53 (14 LT)				1												3
1WS2-2	CS 117+28 (15' RT) TO CS 117+53 (15' RT)				1												3
1WS2-3	CS 117+51 (14' RT) TO CS 126+13 (17' LT)					862.5					138						6,8
1WS2-4	CS 117+53 (14' LT) TO CN 219+25 (1' LT)					212.5					34						5,8
1WS2-5	CN 219+00 (12.7' RT) TO CN 227+39 (16' LT)					837.5					134						5,8
1WS2-6	CN 222+00 (12.5' LT)					12.5					2						5,8
1WS3										5580							
1WS3-1	LE 653+80 (17' LT) TO LE 654+00 (17' LT)								1								1
1WS3-2	LE 654+00 (17' LT) TO LE 655+50 (15' LT)					150					24						6,8,10
1WS3-3	CS 126+13 (12' LT) TO 126+33 (13' LT)								1								
	2ND WINTER SHUTDOWN																
2WS1										4970							
2WS1-1	CS 101+88 (15' LT) TO CS 102+08 (12' LT)								1								1
2WS1-2	CS 102+08 (12' LT) TO CS 105+58 (17' RT)					350					56						6,8
2WS1-3	CN 203+50 (06.5' LT) TO CN 210+12 (24' RT)					662.5					106						5,8
2WS1-4	CS 105+52 (16' LT) TO CS 112+76 (13' RT)					725					116						6,8
2WS2										3610							
2WS2-1	CS 117+28 (14' LT) TO CS 117+53 (14 LT)				1												
2WS2-2	CS 117+28 (15' RT) TO CS 117+53 (15' RT)				1												
2WS2-3	CS 117+51 (14' RT) TO CS 126+13 (17' LT)					862.5					138						6,8
2WS2-4	CS 117+53 (14' LT) TO CN 219+25 (1' LT)					212.5					34						5,8
2WS2-5	CN 219+00 (12.7' RT) TO CN 227+39 (16' LT)					837.5					134						5,8
2WS2-6	CN 222+00 (12.5' LT)					12.5					2						5,8
2WS3										4650							
2WS3-1	LE 653+80 (17' LT) TO LE 654+00 (17' LT)								1								1
2WS3-2	LE 654+00 (17' LT) TO LE 655+50 (15' LT)					150					24						6,8,10
2WS3-3	CS 126+13 (12' LT) TO 126+33 (13' LT)								1								1
	FROM QTPM 1				2												9
	SHEET TOTAL				6	7275			5	26010	1164						
	PROJECT TOTAL		77		11	15037.5	4		8	51770	2646						

GENERAL NOTES:

1. SEE SPECIAL PROVISION "IMPACT ATTENUATOR SYSTEMS".
2. USE TEMPORARY BARRIER (PINNED)
3. SEE STANDARD PLAN C-24.10. TYPE C CONNECTION.
4. USE TEMPORARY BARRIER (PINNED) FROM CS 126+45 TO CS 132+00.
5. WHITE LDS BARRIER DELINEATOR.
6. YELLOW LDS BARRIER DELINEATOR.
7. BOTH SIDES YELLOW LDS BARRIER DELINEATOR.
8. SEE SPECIAL PROVISION, "LDS BARRIER DELINEATORS".
9. SHEET TOTAL FROM QTPM 1 "QUANTITY TABULATION - PAVING/MARKING PLAN" IS ADDED TO SHEET TOTAL AND PROJECT TOTAL SHOWN ON THIS SHEET.
10. USE TEMPORARY BARRIER (PINNED).

					REGION NO.	STATE	FED. AID PROJ. NO.
DESIGNED BY	S. SIGSWORTH				10	WASH	
ENTERED BY	J. RICHARDSON						
CHECKED BY	B. THOMAS				**JOB NUMBER**		NHPP-0902(454)
PROJ. ENGR.	B. HOOKER				22Y001		
REGION ADM.	T. TREPANIER				**CONTRACT NO.**		
		DATE	**DATE**	**REVISION**		**BY**	

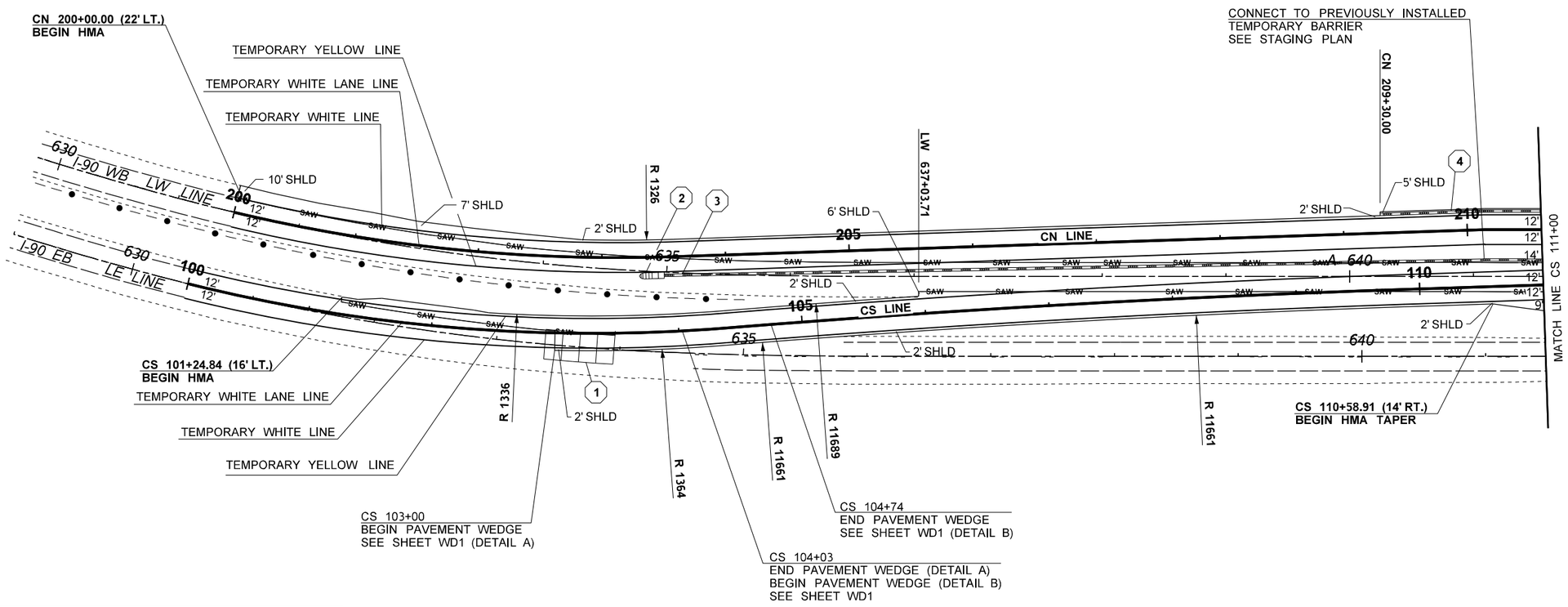
Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES -
DECK REHABILITATION

QUANTITY TABULATION - TEMPORARY PAVING/MARKING PLAN

QTTP 2

SHEET 38 **OF** 108 **SHEETS**



LEGEND

- EXISTING PAVED EDGE
- EXISTING HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE)
- CEMENT CONCRETE PAVEMENT GRINDING
- TEMPORARY BARRIER
- (#) QUANTITY TABULATION
- TEMPORARY IMPACT ATTENUATOR

NOTE:

1. CONFIGURATION SHOWN SHALL BE COMPLETED AND IN PLACE PRIOR TO SHIFTING TRAFFIC TO DETOUR ALIGNMENTS.

0 50 100
SCALE IN FEET

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\250-TemporaryPavingPlan\XL5987_PS_TP.dgn			
TIME	8:48:52 AM			
DATE	3/25/2022			
PLOTTED BY	thomasb			
DESIGNED BY	S. SIGSWORTH			
ENTERED BY	J. RICHARDSON			
CHECKED BY	B. THOMAS			
PROJ. ENGR.	B. HOOKER			
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 22Y001
CONTRACT NO.
FED.AID PROJ.NO. NHPP-0902(454)
LOCATION NO.

MARK E.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

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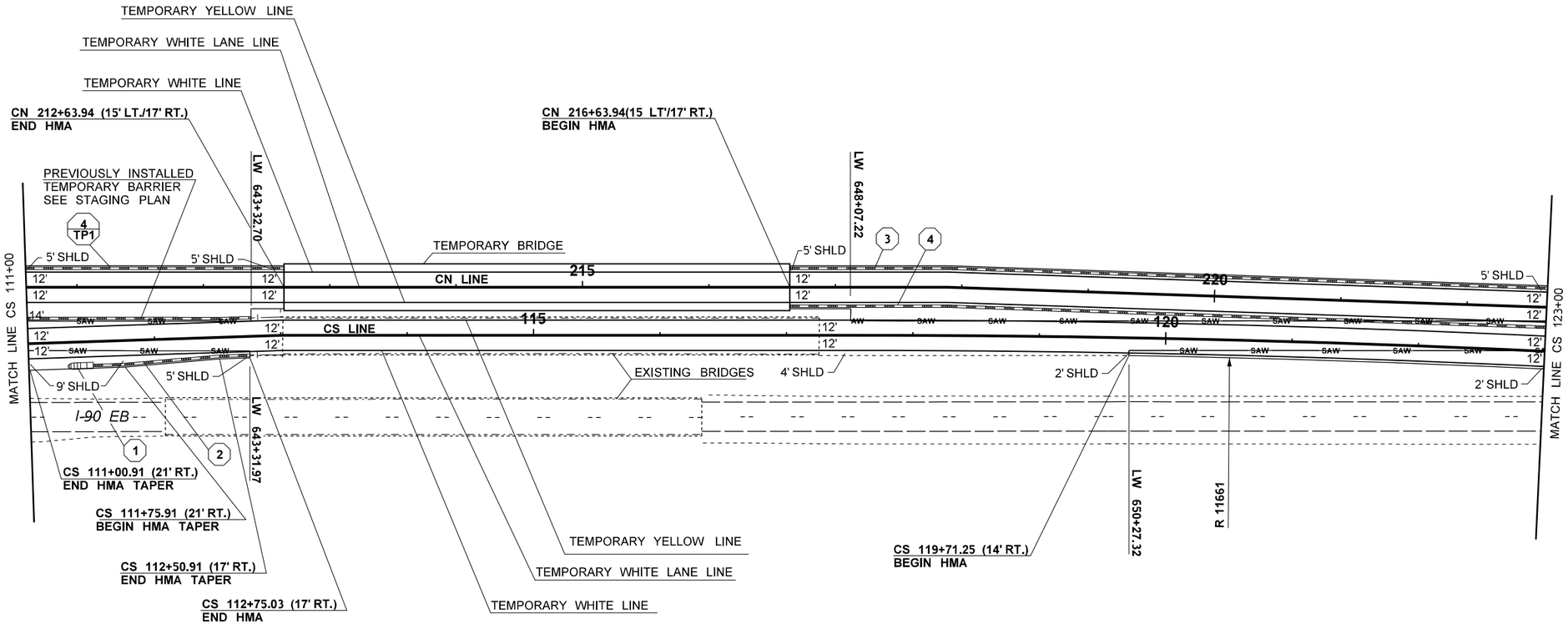
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

TEMPORARY PAVING/MARKING PLAN

Plot 1
PLAN REF NO TP1
SHEET 39 OF 108 SHEETS



LEGEND

EXISTING PAVED EDGE	TEMPORARY IMPACT ATTENUATOR
HMA	GUARDRAIL CONNECTION TO BRIDGE RAIL OR CONCRETE BARRIER
TEMPORARY BARRIER	
# QUANTITY TABULATION	
?? ?? QUANTITY TABULATION CONTINUED	

NOTE:

1. CONFIGURATION SHOWN SHALL BE COMPLETED AND IN PLACE PRIOR TO SHIFTING TRAFFIC TO DETOUR ALIGNMENTS.

0 50 100
SCALE IN FEET

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\250-TemporaryPavingPlan\XL5987_PS_TP.dgn
TIME	8:48:59 AM
DATE	3/25/2022
PLOTTED BY	thomasb
DESIGNED BY	S. SIGSWORTH
ENTERED BY	J. RICHARDSON
CHECKED BY	B. THOMAS
PROJ. ENGR.	B. HOOKER
REGIONAL ADM.	T. TREPANIER

REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 22Y001
CONTRACT NO.

FED.AID PROJ.NO.
NHPP-0902(454)

LOCATION NO.

BOBBY E.S. HOOKER — STATE OF WASHINGTON — 16201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
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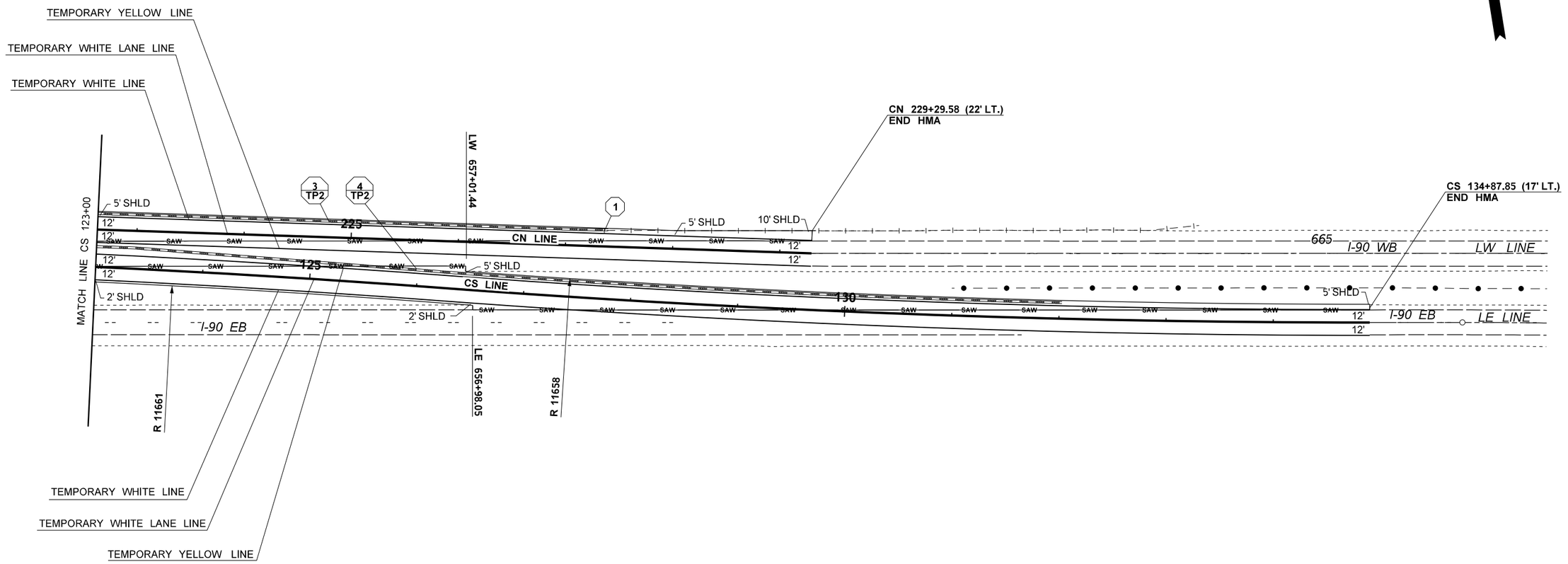
Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

TEMPORARY PAVING/MARKING PLAN

Plot 2
PLAN REF NO TP2
SHEET 40 OF 108 SHEETS



LEGEND

----------	EXISTING PAVED EDGE
-|— —|— —|-	EXISTING GUARDRAIL
- ● — — ●	EXISTING HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE)
————	HMA
═══	TEMPORARY BARRIER
#	QUANTITY TABULATION
?? ??	QUANTITY TABULATION CONTINUED

NOTE:

1. CONFIGURATION SHOWN SHALL BE COMPLETED AND IN PLACE PRIOR TO SHIFTING TRAFFIC TO DETOUR ALIGNMENTS.

0 50 100
SCALE IN FEET

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\250-TemporaryPavingPlan\XL5987_PS_TP.dgn
TIME	8:49:05 AM
DATE	3/25/2022
PLOTTED BY	thomasb
DESIGNED BY	S. SIGSWORTH
ENTERED BY	J. RICHARDSON
CHECKED BY	B. THOMAS
PROJ. ENGR.	B. HOOKER
REGIONAL ADM.	T. TREPANIER

REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 22Y001
CONTRACT NO.

FED.AID PROJ.NO. NHPP-0902(454)
LOCATION NO.

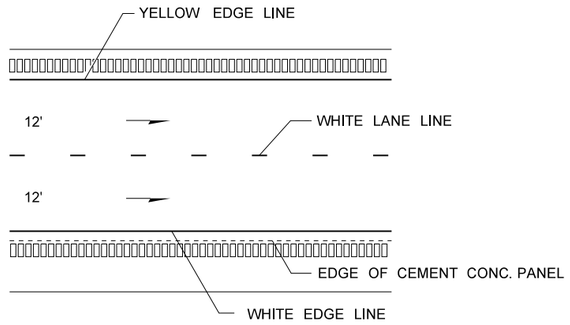
BOBBY E.S. HOOKER — STATE OF WASHINGTON — 16201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

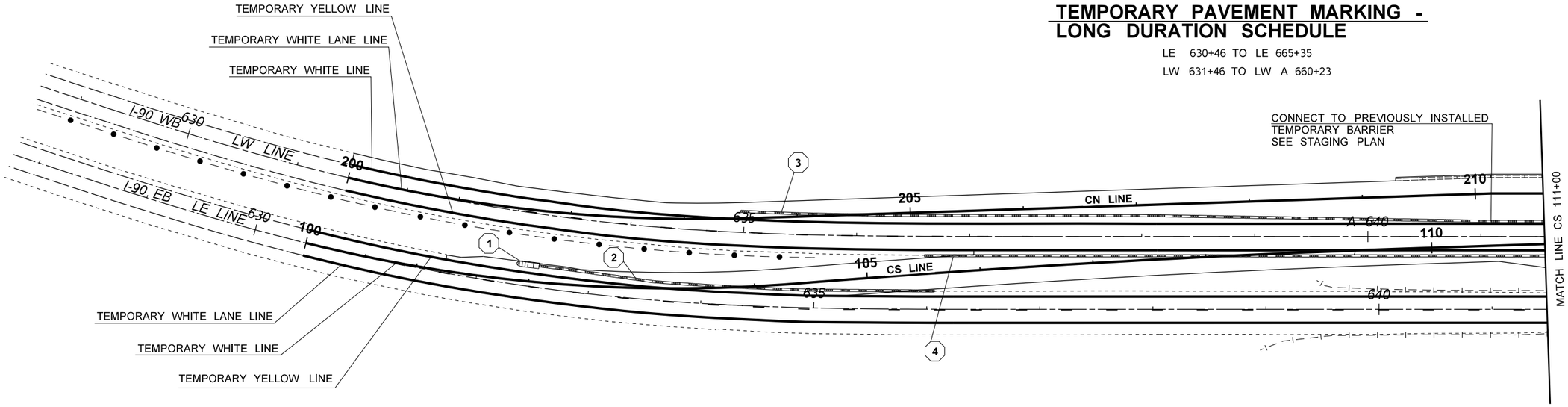
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
TEMPORARY PAVING/MARKING PLAN

Plot 3
PLAN REF NO TP3
SHEET 41 OF 108 SHEETS





TEMPORARY PAVEMENT MARKING - LONG DURATION SCHEDULE

LE 630+46 TO LE 665+35

LW 631+46 TO LW A 660+23

WINTER SHUTDOWN SEASON 1

LEGEND

----------	EXISTING PAVED EDGE	—|— —|—	EXISTING GUARDRAIL
————	HMA		TEMPORARY IMPACT ATTENUATOR
	EXISTING TEMPORARY BARRIER (PINNED)	(#)	QUANTITY TABULATION
	TEMPORARY BARRIER		
- ● — — ● -	EXISTING HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE)		

0 50 100
SCALE IN FEET

NOTES:

1. WESTBOUND DETOUR IS ASSUMED TO BE IN USE FOR 2 CONSTRUCTION SEASONS, AND EASTBOUND DETOUR IS ASSUMED TO BE IN USE FOR 1 CONSTRUCTION SEASON.
2. TRAFFIC WILL BE RETURNED TO MAINLINE DURING WINTER SHUTDOWN. SEE SPECIAL PROVISION "TIME FOR COMPLETION".
3. SEE STANDARD PLAN M-20.10 FOR MORE DETAILS ON LONGITUDINAL MARKING PATTERNS.
4. ONCE WORK RESTARTS IN SPRING, SEE TEMPORARY PAVING/MARKING PLANS.

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\255-WinterShutdown\XL5987_PS_WS SEASON 1.dgn				REGION NO.	STATE	FED.AID PROJ.NO. NHPP-0902(454)
TIME	9:53:12 AM				10	WASH	
DATE	3/25/2022				JOB NUMBER 22Y001		
PLOTTED BY	sigswos				CONTRACT NO.		LOCATION NO.
DESIGNED BY	S. SIGSWORTH						
ENTERED BY	J. RICHARDSON						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

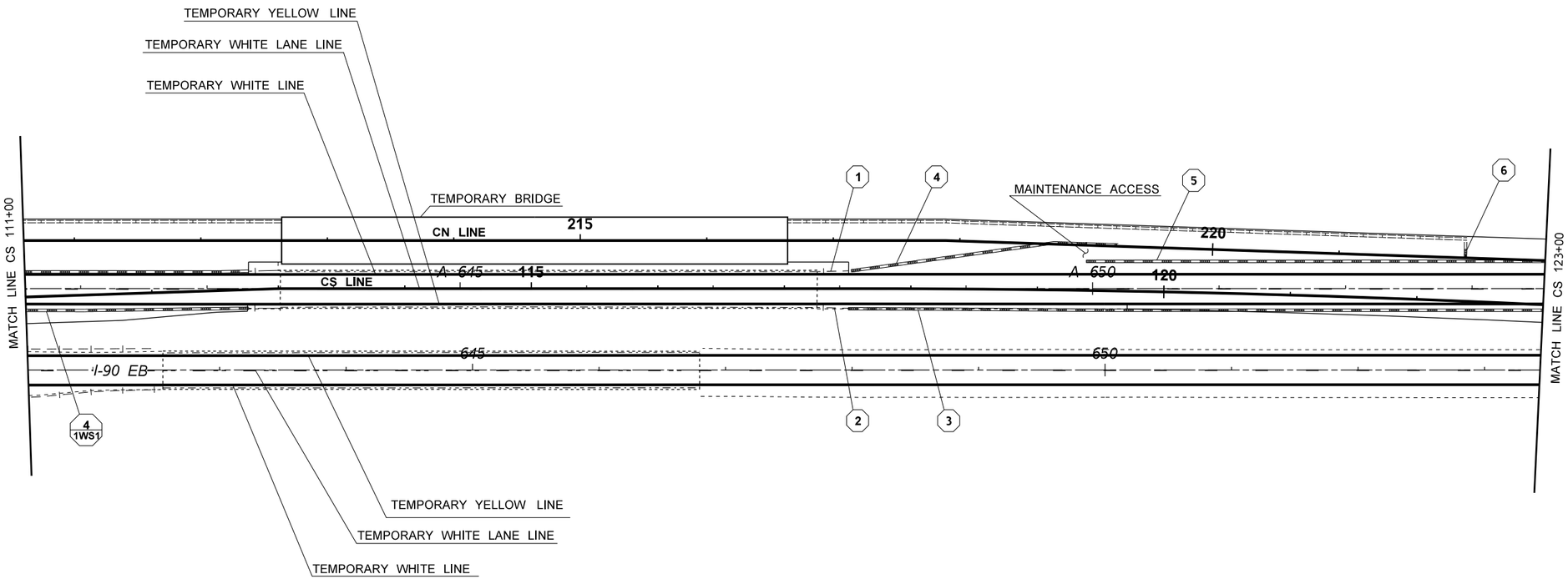
BOBBY E.S. HOOKER — STATE OF WASHINGTON — 24020 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
1ST WINTER SHUTDOWN PLAN

Plot 1
PLAN REF NO 1WS1
SHEET 42 OF 108 SHEETS



WINTER SHUTDOWN SEASON 1

LEGEND

----------	EXISTING PAVED EDGE	-I——I—	GUARDRAIL CONNECTION TO BRIDGE RAIL OR CONCRETE BARRIER
————	HMA	#	QUANTITY TABULATION
=I=I=I=I=	EXISTING TEMPORARY BARRIER (PINNED)	?? / ??	QUANTITY TABULATION CONTINUED
——— ———	TEMPORARY BARRIER		
—I— —I—	EXISTING GUARDRAIL		

0 50 100
SCALE IN FEET

NOTES:

1. WESTBOUND DETOUR IS ASSUMED TO BE IN USE FOR 2 CONSTRUCTION SEASONS, AND EASTBOUND DETOUR IS ASSUMED TO BE IN USE FOR 1 CONSTRUCTION SEASON.
2. TRAFFIC WILL BE RETURNED TO MAINLINE DURING WINTER SHUTDOWN. SEE SPECIAL PROVISION "TIME FOR COMPLETION".
3. SEE STANDARD PLAN M-20.10 FOR MORE DETAILS ON LONGITUDINAL MARKING PATTERNS.
4. ONCE WORK RESTARTS IN SPRING, SEE TEMPORARY PAVING/MARKING PLANS.

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\255-WinterShutdown\XL5987_PS_WS SEASON 1.dgn
TIME	9:53:23 AM
DATE	3/25/2022
PLOTTED BY	sigswos
DESIGNED BY	S. SIGSWORTH
ENTERED BY	J. RICHARDSON
CHECKED BY	B. THOMAS
PROJ. ENGR.	B. HOOKER
REGIONAL ADM.	T. TREPANIER

REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 22Y001
CONTRACT NO.

FED.AID PROJ.NO. NHPP-0902(454)
LOCATION NO.

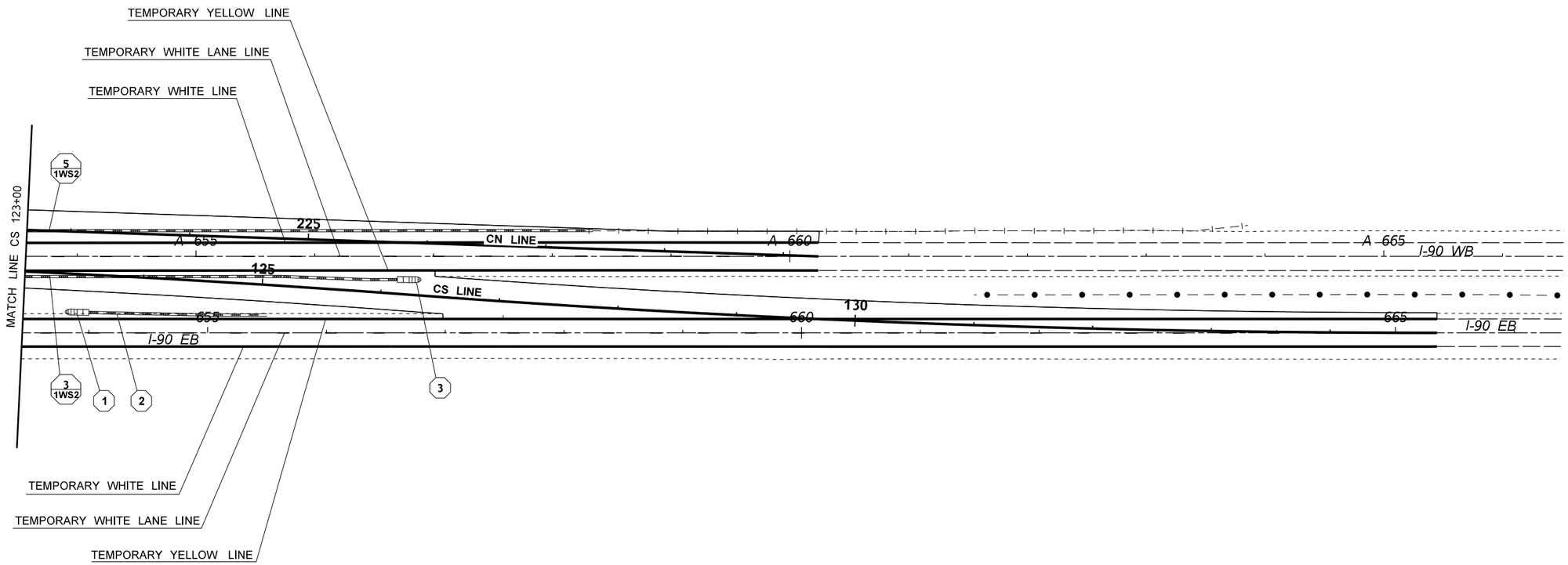
BOBBY E.S. HOOKER — STATE OF WASHINGTON — 16201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
1ST WINTER SHUTDOWN PLAN

Plot 2
PLAN REF NO 1WS2
SHEET 43 OF 108 SHEETS



WINTER SHUTDOWN SEASON 1

LEGEND

- EXISTING PAVED EDGE
- HMA
- TEMPORARY BARRIER
- EXISTING HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE)
- EXISTING GUARDRAIL
- TEMPORARY IMPACT ATTENUATOR
- QUANTITY TABULATION
- QUANTITY TABULATION CONTINUED

0 50 100
SCALE IN FEET

NOTES:

1. WESTBOUND DETOUR IS ASSUMED TO BE IN USE FOR 2 CONSTRUCTION SEASONS, AND EASTBOUND DETOUR IS ASSUMED TO BE IN USE FOR 1 CONSTRUCTION SEASON.
2. TRAFFIC WILL BE RETURNED TO MAINLINE DURING WINTER SHUTDOWN. SEE SPECIAL PROVISION "TIME FOR COMPLETION".
3. SEE STANDARD PLAN M-20.10 FOR MORE DETAILS ON LONGITUDINAL MARKING PATTERNS.
4. ONCE WORK RESTARTS IN SPRING, SEE TEMPORARY PAVING/MARKING PLANS.

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\255-WinterShutdown\XL5987_PS_WS SEASON 1.dgn			
TIME	8:42:17 AM			
DATE	4/21/2022			
PLOTTED BY	richaja			
DESIGNED BY	S. SIGSWORTH			
ENTERED BY	J. RICHARDSON			
CHECKED BY	B. THOMAS			
PROJ. ENGR.	B. HOOKER			
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 22Y001

CONTRACT NO.

FED.AID PROJ.NO. NHPP-0902(454)

LOCATION NO.

BOBBY E.S. HOOKER — STATE OF WASHINGTON — 39201 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

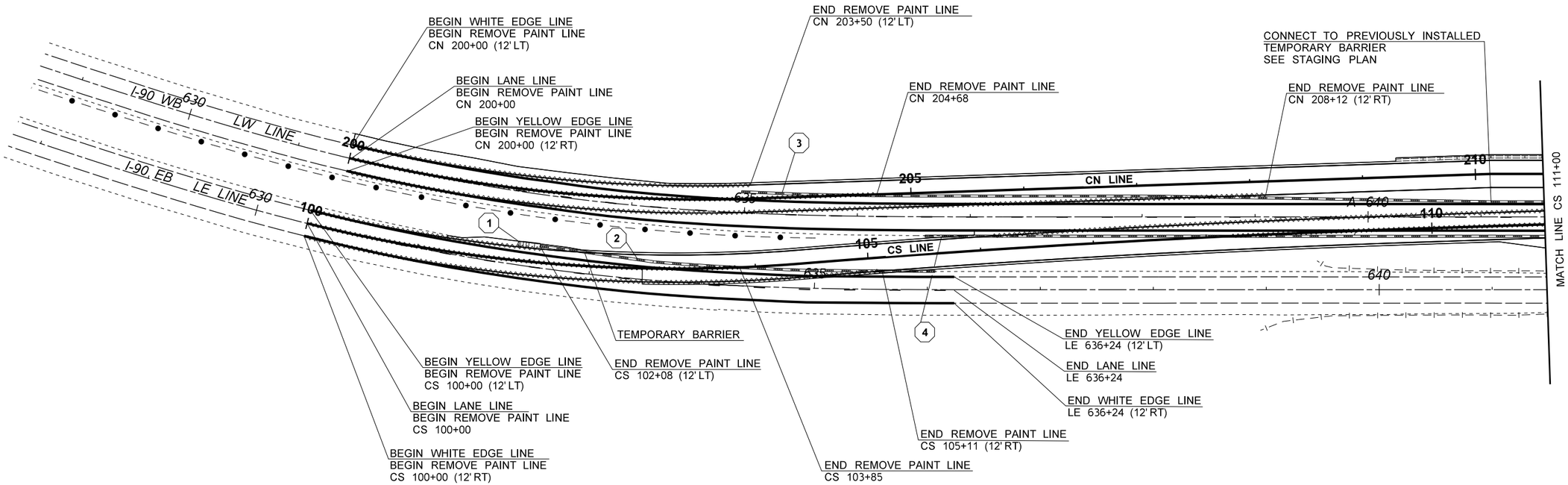
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

1ST WINTER SHUTDOWN PLAN

Plot 3

PLAN REF NO 1WS3

SHEET 44 OF 108 SHEETS



WINTER SHUTDOWN SEASON 2

LEGEND

- EXISTING PAVED EDGE
- HMA
- EXISTING TEMPORARY BARRIER (PINNED)
- TEMPORARY BARRIER
- EXISTING HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE)
- EXISTING GUARDRAIL
- TEMPORARY IMPACT ATTENUATOR
- (#) QUANTITY TABULATION

0 50 100
SCALE IN FEET

NOTES:

1. WESTBOUND DETOUR IS ASSUMED TO BE IN USE FOR 2 CONSTRUCTION SEASONS, AND EASTBOUND DETOUR IS ASSUMED TO BE IN USE FOR 1 CONSTRUCTION SEASON.
2. TRAFFIC WILL BE RETURNED TO MAINLINE DURING WINTER SHUTDOWN. SEE SPECIAL PROVISION "TIME FOR COMPLETION".
3. SEE STANDARD PLAN M-20.10 FOR MORE DETAILS ON LONGITUDINAL MARKING PATTERNS.
4. ONCE WORK RESTARTS IN SPRING, SEE TEMPORARY PAVING/MARKING PLANS.

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\255-WinterShutdown\XL5987_PS_WS SEASON 2.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. NHPP-0902(454)
TIME	9:46:47 AM						
DATE	3/25/2022				JOB NUMBER 22Y001		
PLOTTED BY	sigswos						
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. RICHARDSON						
CHECKED BY	S. ROBERT						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

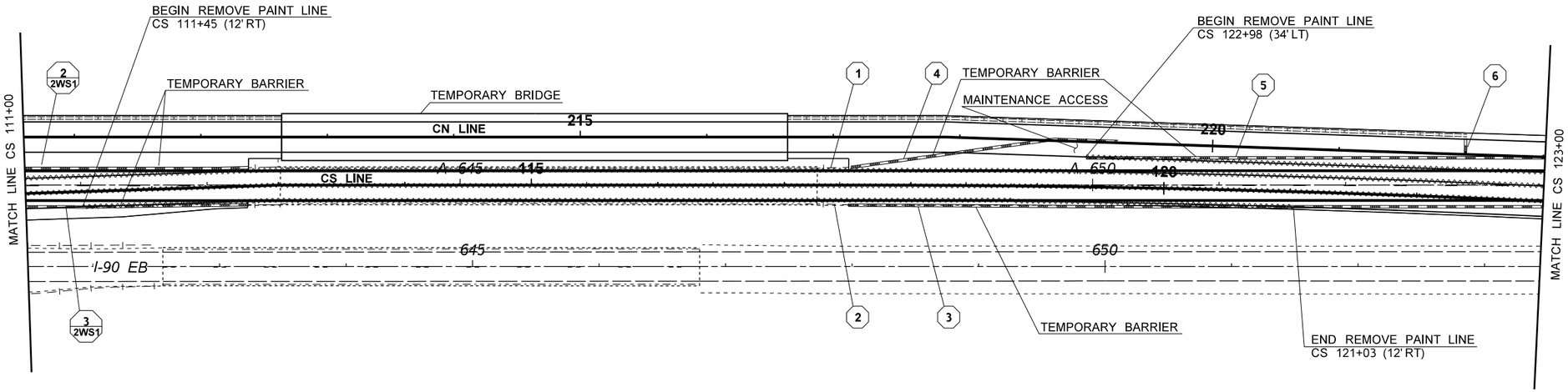
BOBBY E.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
2ND WINTER SHUTDOWN PLAN

Plot 1
PLAN REF NO 2WS1
SHEET 45 OF 108 SHEETS



WINTER SHUTDOWN SEASON 2

LEGEND

- - - - - - - - - -	EXISTING PAVED EDGE	-I——I——	GUARDRAIL CONNECTION TO BRIDGE RAIL OR CONCRETE BARRIER
————	HMA	#	QUANTITY TABULATION
=I=I=I=I=I=	EXISTING TEMPORARY BARRIER (PINNED)	?? / ??	QUANTITY TABULATION CONTINUED
▬▬▬▬▬▬	TEMPORARY BARRIER		
—I— —I—	EXISTING GUARDRAIL		

0 50 100
SCALE IN FEET

NOTES:

1. WESTBOUND DETOUR IS ASSUMED TO BE IN USE FOR 2 CONSTRUCTION SEASONS, AND EASTBOUND DETOUR IS ASSUMED TO BE IN USE FOR 1 CONSTRUCTION SEASON.
2. TRAFFIC WILL BE RETURNED TO MAINLINE DURING WINTER SHUTDOWN. SEE SPECIAL PROVISION "TIME FOR COMPLETION".
3. SEE STANDARD PLAN M-20.10 FOR MORE DETAILS ON LONGITUDINAL MARKING PATTERNS.
4. ONCE WORK RESTARTS IN SPRING, SEE TEMPORARY PAVING/MARKING PLANS.

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\255-WinterShutdown\XL5987_PS_WS SEASON 2.dgn			
TIME	9:47:06 AM			
DATE	3/25/2022			
PLOTTED BY	sigswos			
DESIGNED BY	S. SIGSWORTH			
ENTERED BY	J. RICHARDSON			
CHECKED BY	S. ROBERT			
PROJ. ENGR.	B. HOOKER			
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 22Y001
CONTRACT NO.
FED.AID PROJ.NO. NHPP-0902(454)
LOCATION NO.

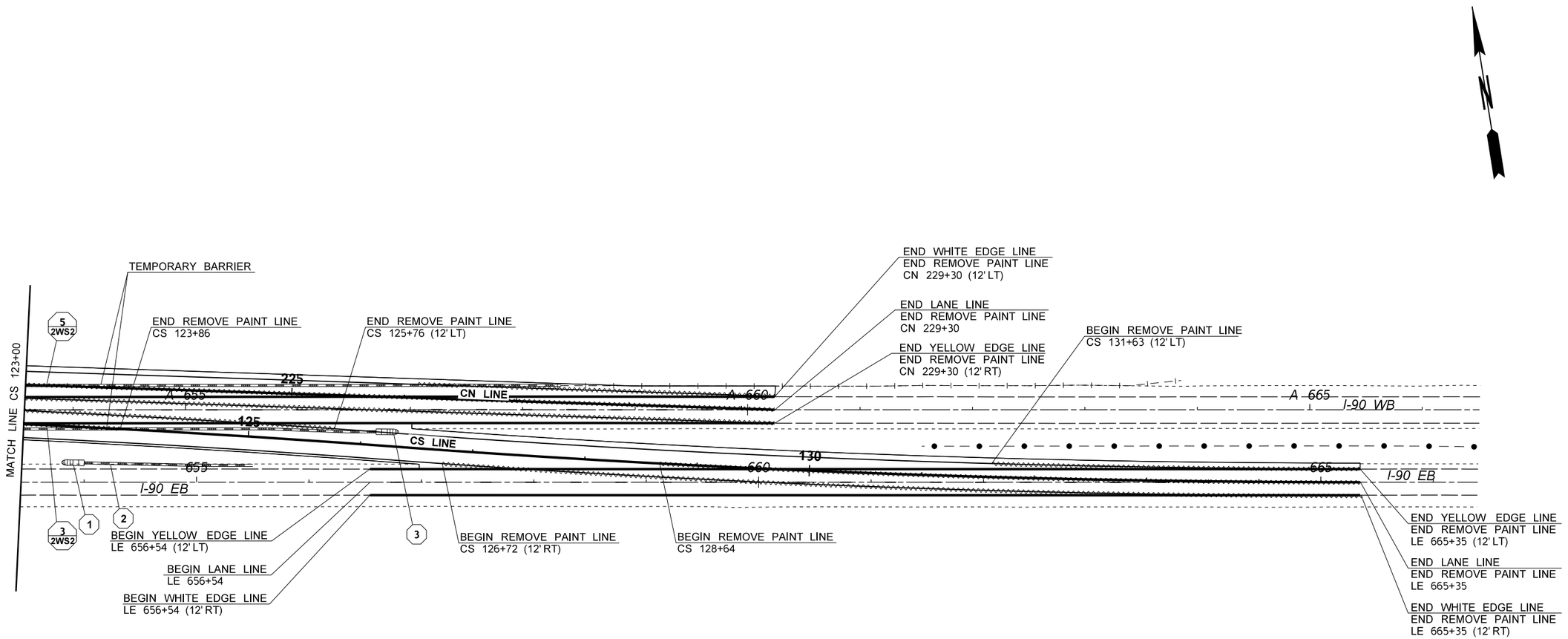
BOBBY E.S. HOOKER — STATE OF WASHINGTON — 25201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
2ND WINTER SHUTDOWN PLAN

Plot 2
PLAN REF NO 2WS2
SHEET 46 OF 108 SHEETS



WINTER SHUTDOWN SEASON 2

LEGEND

- EXISTING PAVED EDGE
- HMA
- TEMPORARY BARRIER
- EXISTING HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE)
- EXISTING GUARDRAIL
- TEMPORARY IMPACT ATTENUATOR
- # QUANTITY TABULATION
- ?? ?? QUANTITY TABULATION CONTINUED

0 50 100
SCALE IN FEET

NOTES:

1. WESTBOUND DETOUR IS ASSUMED TO BE IN USE FOR 2 CONSTRUCTION SEASONS, AND EASTBOUND DETOUR IS ASSUMED TO BE IN USE FOR 1 CONSTRUCTION SEASON.
2. TRAFFIC WILL BE RETURNED TO MAINLINE DURING WINTER SHUTDOWN. SEE SPECIAL PROVISION "TIME FOR COMPLETION".
3. SEE STANDARD PLAN M-20.10 FOR MORE DETAILS ON LONGITUDINAL MARKING PATTERNS.
4. ONCE WORK RESTARTS IN SPRING, SEE TEMPORARY PAVING/MARKING PLANS.

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\255-WinterShutdown\XL5987_PS_WS SEASON 2.dgn			
TIME	8:44:18 AM			
DATE	4/21/2022			
PLOTTED BY	richaja			
DESIGNED BY	S. SIGSWORTH			
ENTERED BY	J. RICHARDSON			
CHECKED BY	S. ROBERT			
PROJ. ENGR.	B. HOOKER			
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 22Y001
CONTRACT NO.
FED.AID PROJ.NO. NHPP-0902(454)
LOCATION NO.

ROBERT E.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
2ND WINTER SHUTDOWN PLAN

Plot 3
PLAN REF NO 2WS3
SHEET 47 OF 108 SHEETS

QUANTITY TABULATION - PAVING/MARKING PLAN

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ⮛ \ UNIT OF MEASURE ⮚	REMOVING HIGH-TENSION CABLE BARRIER SYSTEM	REPLACE CEMENT CONCRETE PANEL	BEAM GUARDRAIL TYPE 31		BEAM GUARDRAIL TRANSITION SECTION TYPE 21	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL		BEAM GUARDRAIL ANCHOR TYPE 10	HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE)		FLEXIBLE GUIDE POST TYPE Y	FLEXIBLE GUIDE POST TYPE W		PAINT LINE	GROOVED PLASTIC LINE	SEE GENERAL NOTES
		L.F.	S.Y.	L.F.		EACH	EACH		EACH	L.F.		EACH	EACH		L.F.	L.F.	
	LE 630+46 TO LE 665+35											13	13				3,4
	LW 631+46 TO LW A 660+24											12	12				3,4
PM1-1	LE 630+46 (12' RT.) TO LE 665+35 (12' RT.)														3500		
PM1-2	LE 630+46 TO LE 665+35															3500	
PM1-3	LE 630+46 (12' LT.) TO LE 665+35 (12' LT.)														3490		
PM1-4	LW 631+46 (12' LT.) TO LW A 660+24 (12' LT.)														2940		
PM1-5	LW 631+46 TO LW A 660+24															2940	
PM1-6	LW 631+46 (12' RT.) TO LW A 660+24 (12' RT.)														2930		
PM1-7	LE 633+39 (12' LT.) TO LE A 633+95 (12' RT.)		149.3														
PM1-8	LE 634+39 (45' LT.) TO LE 635+00 (45' LT.)	60															9
PM1-9	LE 634+39 (45' LT.) TO LE 642+02 (40' LT.)									761							6
PM1-10	LE 638+57 (20' LT.) TO LE A 639+07 (18' LT.)						1										5
PM1-11	LE 639+07 (18' LT.) TO LE A 639+94 (18' LT.)			75													2
PM1-12	LW A 639+88 (14' RT.)																
PM1-13	LW A 640+05 (14' LT.)																
PM1-14	LW A 640+05 (22' LT.) TO LW A 640+17 (22' LT.)								1								8
PM1-15	LW A 640+17 (22' LT.) TO LW A 643+44 (21' LT.)			325													
PM2-1	LW A 642+48 (14' LT.)																
PM2-2	LW A 642+48 (14' RT.)																
PM2-3	LW A 642+66 (17' RT.) TO LW A 642+78 (17' RT.)								1								8
PM2-4	LW A 642+78 (17' RT.) TO LW A 643+44 (17' RT.)			62.5													
PM2-5	LW A 643+44 (17' RT.) TO LW A 643+56 (17' RT.)								1								8
PM2-6	LW A 643+44 (21' LT.) TO LW A 643+56 (21' LT.)								1								8
PM2-7	LW A 647+70 (14' LT.) TO LW A 647+86 (14' LT.)					1											1,7
PM2-8	LW A 647+70 (14' RT.) TO LW A 647+86 (14' RT.)					1											1,7
PM2-9	LE 647+86 (32' LT.) TO LE 662+05 (32' LT.)									1419							6
PM2-10	LW A 647+86 (14' RT.) TO LW A 650+72 (16' RT.)			287.5													
PM2-11	LW A 647+85 (14' LT.) TO LW A 658+27 (22' LT.)			1037.5													
PM2-12	LW A 650+72 (16' RT.) TO LW A 651+22 (18' RT.)						1										5,7
PM3-1	LE 657+49 (14' LT.)																
PM3-2	LE 661+45 (32' LT.) TO LE 662+05 (32' LT.)	60															9
	SHEET TOTAL	120	149.3	1787.5		2	2		4	2180		25	25		12860	6440	
	PROJECT TOTAL	120	149.3	1787.5		see note 7	2		4	2180		25	25		12860	6440	

GENERAL NOTES:

1. SEE STANDARD PLAN C-24.10. TYPE C CONNECTION
2. SEE STANDARD PLAN C-25.80.
3. SEE STANDARD PLAN M-60.10.
4. SEE STANDARD PLAN M-40.10.
5. SEE STANDARD PLAN C-22.40.
6. SPLICE NEW CABLE BARRIER INTO EXISTING CABLE BARRIER.
7. SEE QTTP 2 "TEMPORARY PAVING/PAVEMENT MARKING" FOR PROJECT TOTAL FOR "BEAM GUARDRAIL TRANSITION SECTION TYPE 21."
8. SEE STANDARD PLAN C-23.60.
9. REMOVING CABLE BARRIER ANCHORING SYSTEM IN PREPARATION FOR SPLICING IN A NEW CABLE BARRIER RUN.

DESIGNED BY	S. SIGSWORTH				
ENTERED BY	J. RICHARDSON				
CHECKED BY	B. THOMAS				
PROJ. ENGR.	B. HOOKER				
REGION ADM.	T. TREPANIER				
		DATE	**DATE**	**REVISION**	**BY**

REGION NO.	**STATE**	**FED. AID PROJ. NO.**
10	WASH	NHPP-0902(454)
JOB NUMBER 22Y001		
CONTRACT NO.		

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

QUANTITY TABULATION - PAVING/MARKING PLAN

QTPM 1

QUANTITY TABULATION - PAVING/MARKING PLAN

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ⮟ \ UNIT OF MEASURE ⮞	PAINTED DRAINAGE MARKING	SHOULDER RUMBLE STRIP TYPE1	SEE GENERAL NOTES
		EACH	MI.	
	LE 630+46 TO LE 665+35		0.28	3,4
	LW 631+46 TO LW A 660+24		1.05	3,4
PM1-1	LE 630+46 (12' RT.) TO LE 665+35 (12' RT.)			
PM1-2	LE 630+46 TO LE 665+35			
PM1-3	LE 630+46 (12' LT.) TO LE 665+35 (12' LT.)			
PM1-4	LW 631+46 (12' LT.) TO LW A 660+24 (12' LT.)			
PM1-5	LW 631+46 TO LW A 660+24			
PM1-6	LW 631+46 (12' RT.) TO LW A 660+24 (12' RT.)			
PM1-7	LE 633+39 (12' LT.) TO LE A 633+95 (12' RT.)			
PM1-8	LE 634+39 (45' LT.) TO LE 635+00 (45' LT.)			9
PM1-9	LE 634+39 (45' LT.) TO LE 642+02 (40' LT.)			6
PM1-10	LE 638+57 (20' LT.) TO LE A 639+07 (18' LT.)			5
PM1-11	LE 639+07 (18' LT.) TO LE A 639+94 (18' LT.)			2
PM1-12	LW A 639+88 (14' RT.)	1		
PM1-13	LW A 640+05 (14' LT.)	1		
PM1-14	LW A 640+05 (22' LT.) TO LW A 640+17 (22' LT.)			
PM1-15	LW A 640+17 (22' LT.) TO LW A 643+44 (21' LT.)			
PM2-1	LW A 642+48 (14' LT.)	1		
PM2-2	LW A 642+48 (14' RT.)	1		
PM2-3	LW A 642+66 (17' RT.) TO LW A 642+78 (17' RT.)			
PM2-4	LW A 642+78 (17' RT.) TO LW A 643+44 (17' RT.)			
PM2-5	LW A 643+44 (17' RT.) TO LW A 643+56 (17' RT.)			
PM2-6	LW A 643+44 (21' LT.) TO LW A 643+56 (21' LT.)			
PM2-7	LW A 647+70 (14' LT.) TO LW A 647+86 (14' LT.)			
PM2-8	LW A 647+70 (14' RT.) TO LW A 647+86 (14' RT.)			
PM2-9	LE 647+86 (32' LT.) TO LE 662+05 (32' LT.)			
PM2-10	LW A 647+86 (14' RT.) TO LW A 650+72 (16' RT.)			
PM2-11	LW A 647+85 (14' LT.) TO LW A 658+27 (22' LT.)			1,2,7
PM2-12	LW A 650+72 (16' RT.) TO LW A 651+22 (18' RT.)			1,5,7
				6
PM3-1	LE 657+49 (14' LT.)	1		
PM3-2	LE 661+45 (32' LT.) TO LE 662+05 (32' LT.)			9
	SHEET TOTAL	5	1.33	
	PROJECT TOTAL	5	1.33	

GENERAL NOTES:

1. SEE STANDARD PLAN C-24.10. TYPE C CONNECTION
2. SEE STANDARD PLAN C-25.80.
3. SEE STANDARD PLAN M-60.10.
4. SEE STANDARD PLAN M-40.10.
5. SEE STANDARD PLAN C-22.40.
6. SPLICE NEW CABLE BARRIER INTO EXISTING CABLE BARRIER.
7. SEE QTTP 2 "TEMPORARY PAVING/PAVEMENT MARKING" FOR PROJECT TOTAL FOR "BEAM GUARDRAIL TRANSITION SECTION TYPE 21."
8. SEE STANDARD PLAN C-23.60.
9. REMOVING CABLE BARRIER ANCHORING SYSTEM IN PREPARATION FOR SPLICING IN A NEW CABLE BARRIER RUN.

		DATE	DATE	REVISION	BY
DESIGNED BY	S. SIGSWORTH				
ENTERED BY	J. RICHARDSON				
CHECKED BY	B. THOMAS				
PROJ. ENGR.	B. HOOKER				
REGION ADM.	T. TREPANIER				

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	NHPP-0902(454)

JOB NUMBER 22Y001

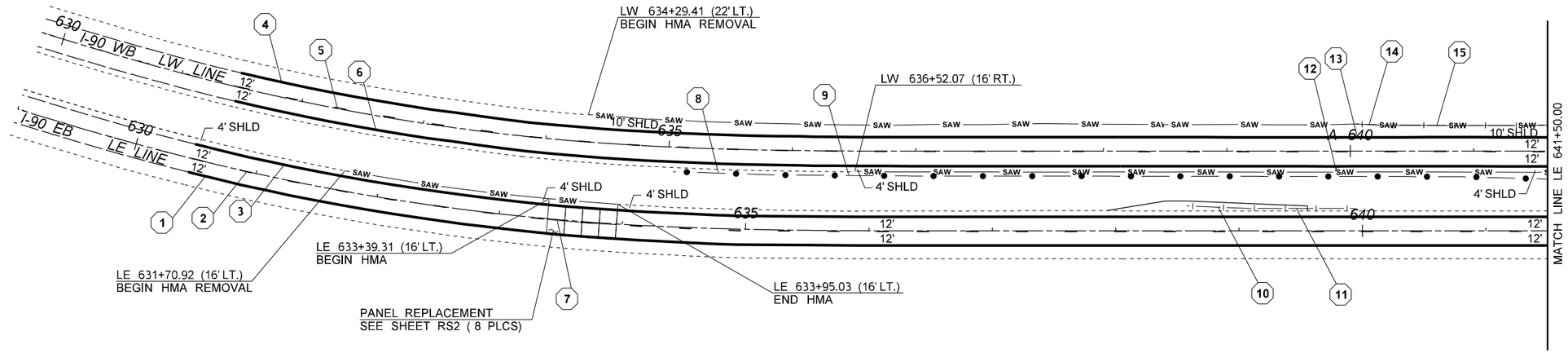
CONTRACT NO.

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

QUANTITY TABULATION - PAVING/MARKING PLAN

QTPM 2



LEGEND

----------	EXISTING PAVED EDGE
-I——I——I-	BEAM GUARDRAIL TYPE 31
- ● —— ●	HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE)
————	GRAVEL EDGE
(#)	QUANTITY TABULATION

NOTES:

1. SEE STANDARD PLAN M-20.10 FOR MORE DETAILS ON LONGITUDINAL MARKING PATTERNS.
2. SEE STANDARD PLAN M-60.10 FOR MORE DETAILS ON SHOULDER RUMBLE STRIP TYPE1 FOR DIVIDED HIGHWAYS.

0 50 100
SCALE IN FEET

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\270-PavingMarkingPlan\XL5987_PS_PVM.dgn				REGION NO.	STATE	FED.AID PROJ.NO. NHPP-0902(454)
TIME	9:15:16 AM				10	WASH	
DATE	3/25/2022				JOB NUMBER 22Y001		
PLOTTED BY	thomasb				CONTRACT NO.		LOCATION NO.
DESIGNED BY	S. SIGSWORTH						
ENTERED BY	J. RICHARDSON						
CHECKED BY	S. ROBERT						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

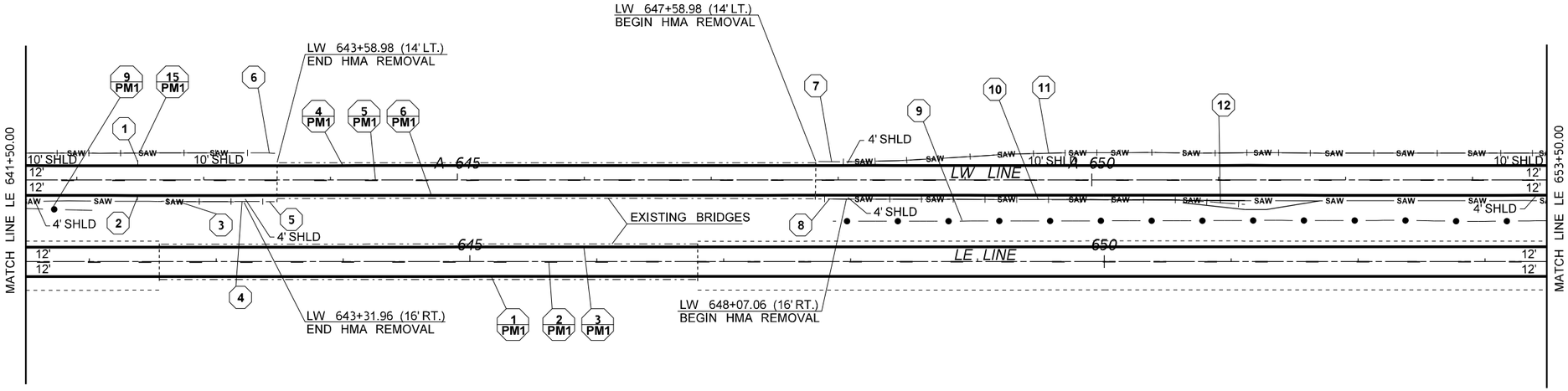
ROBBY E.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
PAVING/MARKING PLAN

Plot 1
PLAN REF NO **PM1**
SHEET 50 OF 108 SHEETS



LEGEND

----------	EXISTING PAVED EDGE
-I——I——I-	BEAM GUARDRAIL TYPE 31
- ● —— ●	HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE)
————	GRAVEL EDGE
#	QUANTITY TABULATION
?? / ???	QUANTITY TABULATION CONTINUED

NOTES:

1. SEE STANDARD PLAN M-20.10 FOR MORE DETAILS ON LONGITUDINAL MARKING PATTERNS.
2. SEE STANDARD PLAN M-60.10 FOR MORE DETAILS ON SHOULDER RUMBLE STRIP TYPE1 FOR DIVIDED HIGHWAYS.

0 50 100
SCALE IN FEET

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\270-PavingMarkingPlan\XL5987_PS_PVM.dgn				REGION NO.	STATE	FED.AID PROJ.NO. NHPP-0902(454)
TIME	9:15:22 AM				10	WASH	
DATE	3/25/2022				JOB NUMBER 22Y001		
PLOTTED BY	thomasb						
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. RICHARDSON						
CHECKED BY	S. ROBERT						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

ROBERT E.S. HOOKER — STATE OF WASHINGTON — 26204 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

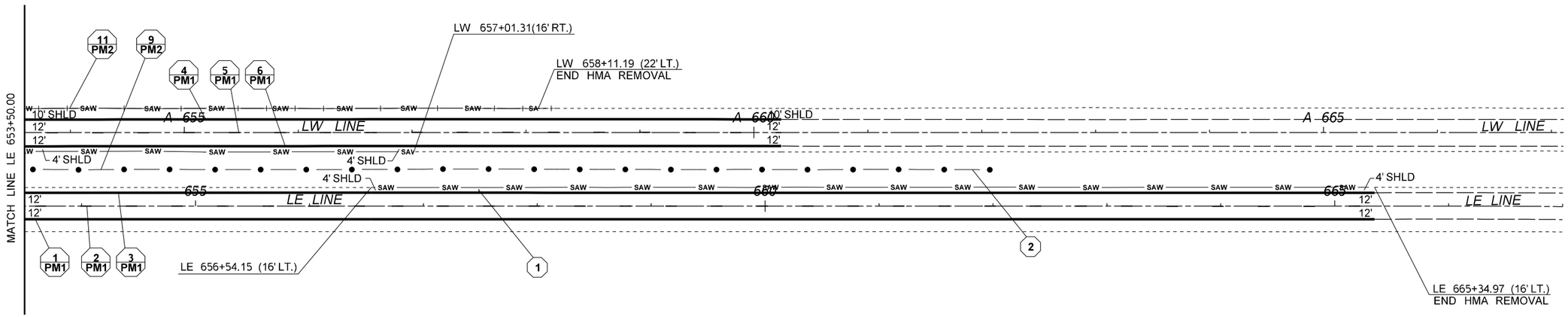
DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

PAVING/MARKING PLAN

Plot 2
PLAN REF NO **PM2**
SHEET 51 OF 108 SHEETS



LEGEND

- - - - - - - - - -	EXISTING PAVED EDGE
-|——|——|-	BEAM GUARDRAIL TYPE 31
- ● —— ●	HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE)
#	QUANTITY TABULATION
?? / ???	QUANTITY TABULATION CONTINUED

NOTES:

1. SEE STANDARD PLAN M-20.10 FOR MORE DETAILS ON LONGITUDINAL MARKING PATTERNS.
2. SEE STANDARD PLAN M-60.10 FOR MORE DETAILS ON SHOULDER RUMBLE STRIP TYPE1 FOR DIVIDED HIGHWAYS.

0 50 100
SCALE IN FEET

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\270-PavingMarkingPlan\XL5987_PS_PVM.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
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DATE	3/25/2022				JOB NUMBER		
PLOTTED BY	thomasb				22Y001		
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. RICHARDSON						
CHECKED BY	S. ROBERT						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

ROBERT E.S. HOOKER — STATE OF WASHINGTON — 16207 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

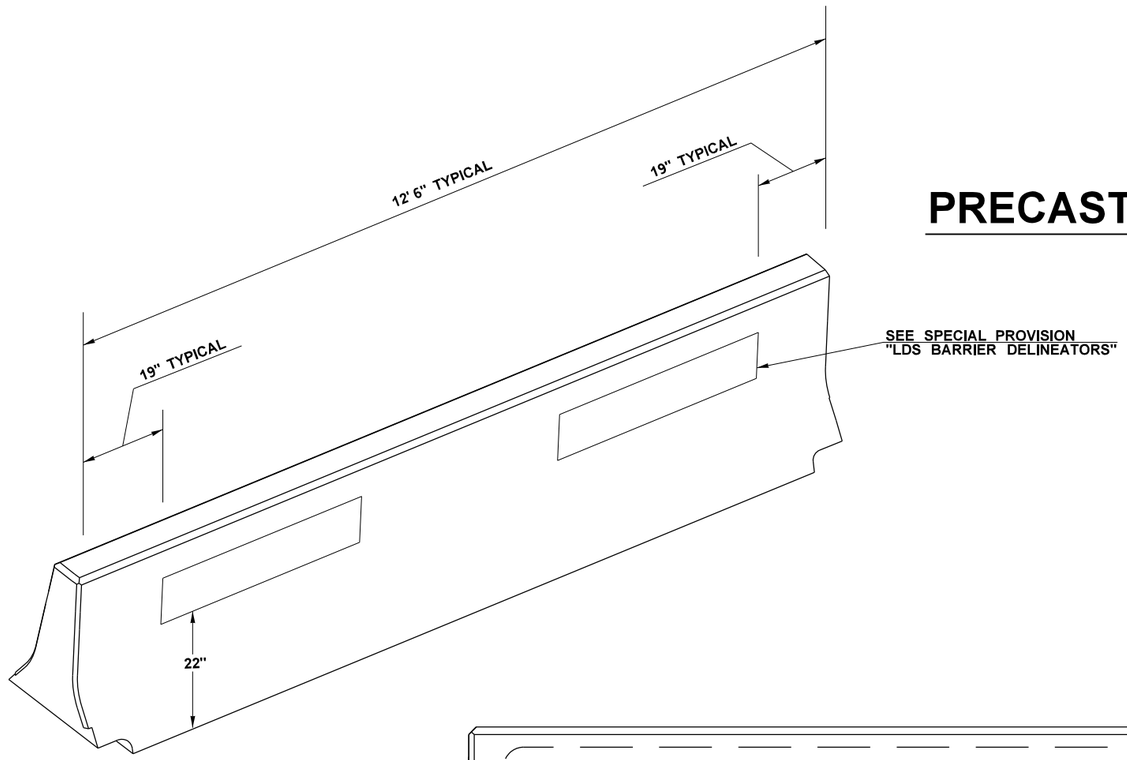
Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

PAVING/MARKING PLAN

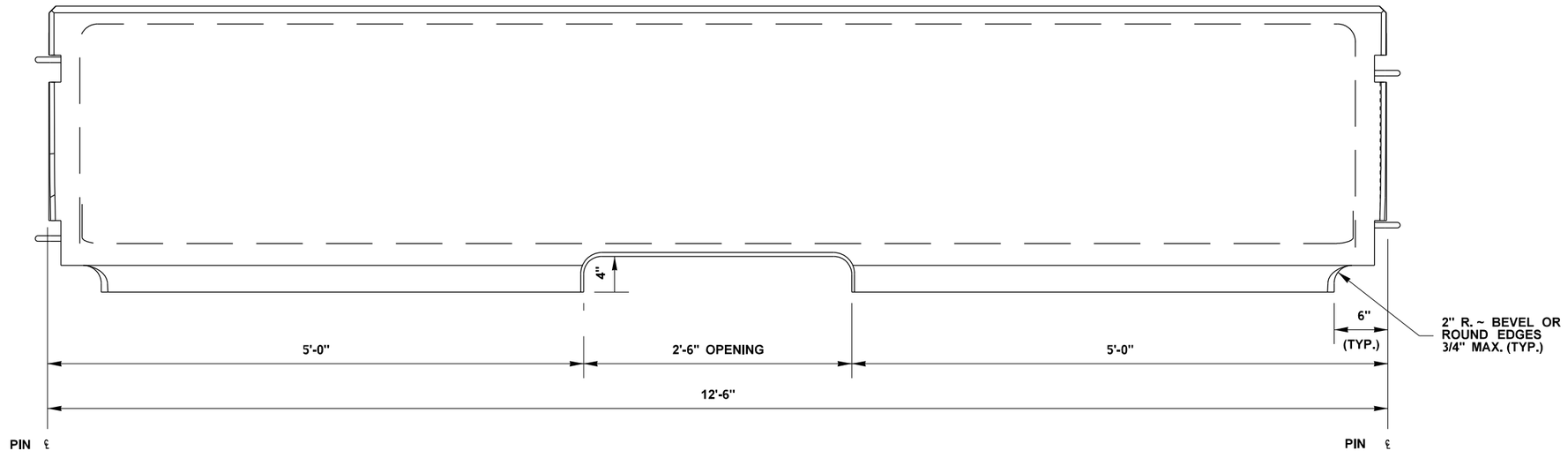
Plot 3
PLAN REF NO **PM3**
SHEET **52** OF **108** SHEETS

PRECAST CONCRETE BARRIER



NOTE:

1. INSTALL TWO "LDS BARRIER DELINATORS" PER BARRIER SECTION AS SHOWN.



PRECAST CONCRETE BARRIER TYPE 2 WITH SCUPPER

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DATE	3/25/2022						
PLOTTED BY	thomasb						
DESIGNED BY	S. SIGSWORTH						
ENTERED BY	C. JOHNSTON						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

REGION NO.	STATE
10	WASH

JOB NUMBER 22Y001

CONTRACT NO.

FED.AID PROJ.NO. NHPP-0902(454)

LOCATION NO.

ROBERT E.S. HOOKER — STATE OF WASHINGTON — 16270 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

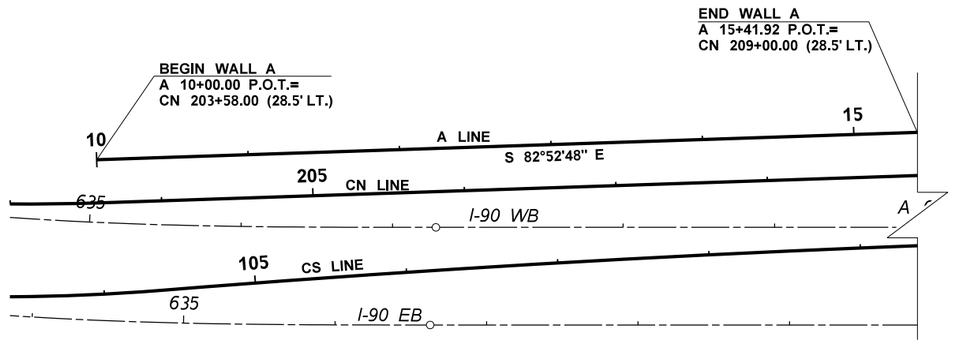
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITAION

CONCRETE BARRIER DETAIL

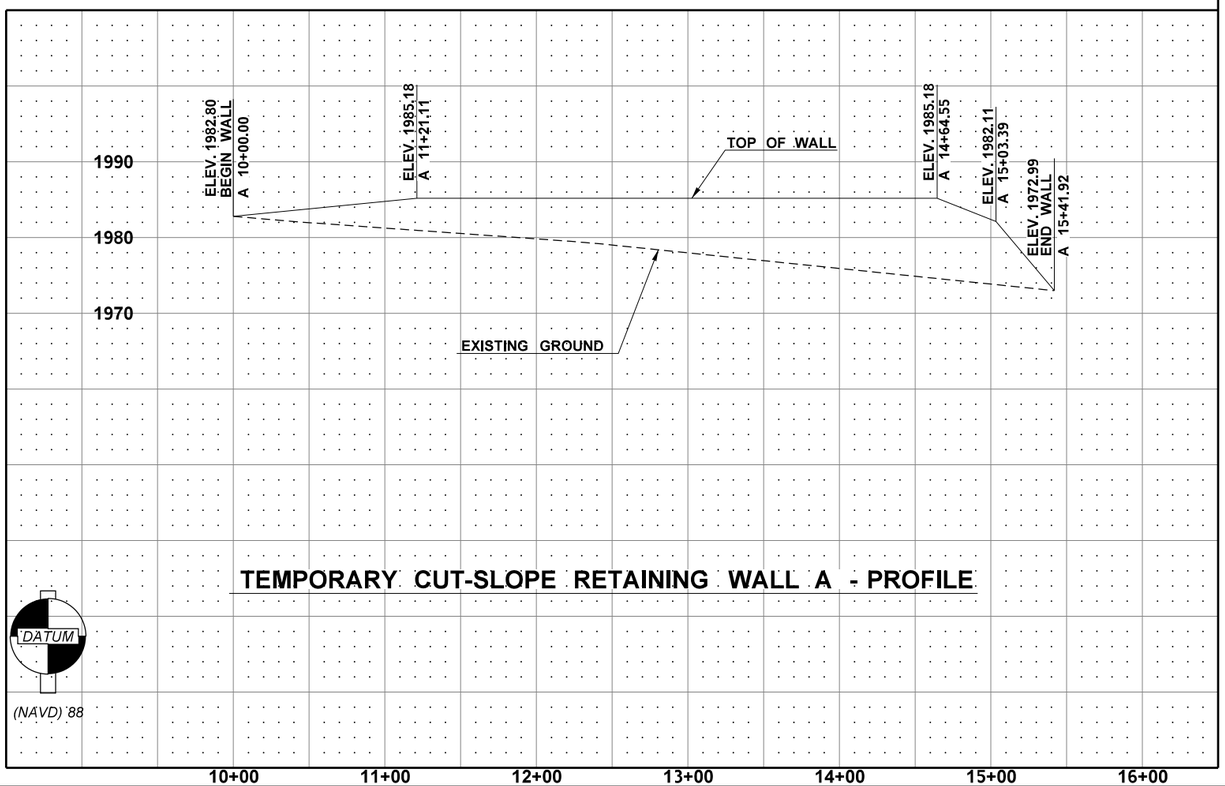
Plot 1

PLAN REF NO
CB1

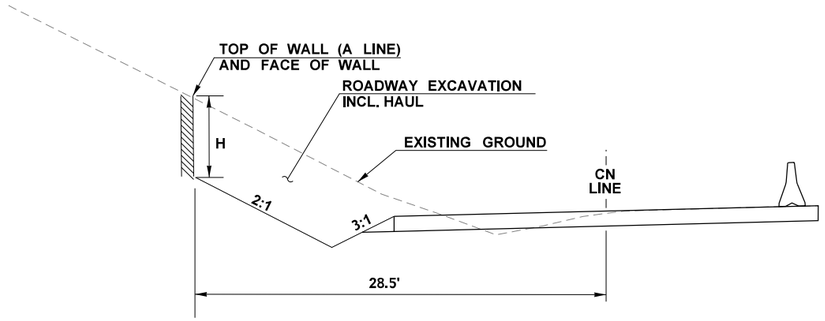
SHEET 53 OF 108 SHEETS



TEMPORARY CUT-SLOPE RETAINING WALL A



TEMPORARY CUT-SLOPE RETAINING WALL A - PROFILE



TEMPORARY CUT-SLOPE RETAINING WALL A - SECTION

WALL A 10+00.00 TO A 15+41.92

NOTE:

1. SEE SPECIAL PROVISION, "TEMPORARY CUT-SLOPE RETAINING WALL".

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\290-MinorStruct\XL5987_PS_TEMPWALL.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
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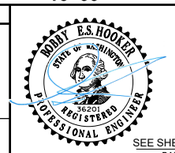
DATE	4/21/2022				JOB NUMBER		
PLOTTED BY	richaja				22Y001		
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	J. RICHARDSON						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			



SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

I-90
S CLE ELUM RD BRIDGES -
DECK REHABILITATION

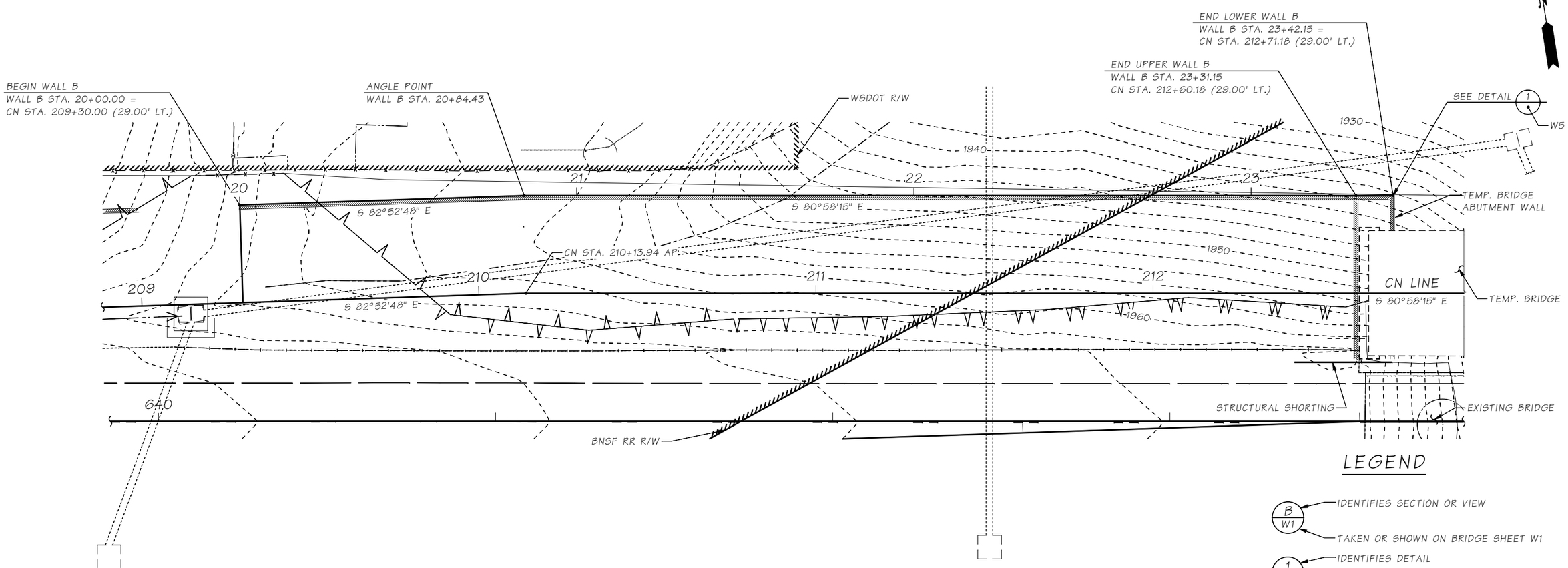
TEMPORARY WALL A PLAN/PLOTFILE

PLAN REF. NO.
TW1

SHEET
54
OF
108
SHEETS

SEC. 27, T.20N., R.15E., W.M.
CITY OF CLE ELUM

I-90



PLAN

LEGEND

- B / W1 — IDENTIFIES SECTION OR VIEW; TAKEN OR SHOWN ON BRIDGE SHEET W1
- 1 / — IDENTIFIES DETAIL; TAKEN OR SHOWN ON THE SAME SHEET
- EXISTING CATCH BASIN
- EXISTING MANHOLE
- TREE LINE
- EXISTING GUARD RAIL
- EXISTING RETAINING WALL
- EXISTING FENCE
- EXISTING DRAINAGE

GEOSYNTHETIC WALL

SR ____ FILE NO. ____ SHEET W1

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\ACROW WALLS\window files\01 LAYOUT WALL B.WND								
Supervisor	Rodda, NT									
Designed By	Rodda, NT 11/21									
Checked By	Chavez, G 03/22									
Detailed By	Davis, E 11/21									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.			
JOB NUMBER 22Y001				
CONTRACT NO.				

P.E. STAMP BOX — SEE SHEET CT1 — DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX — BILIAN KHALEGHI, STATE OF WASHINGTON, 21900, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

Washington State Department of Transportation

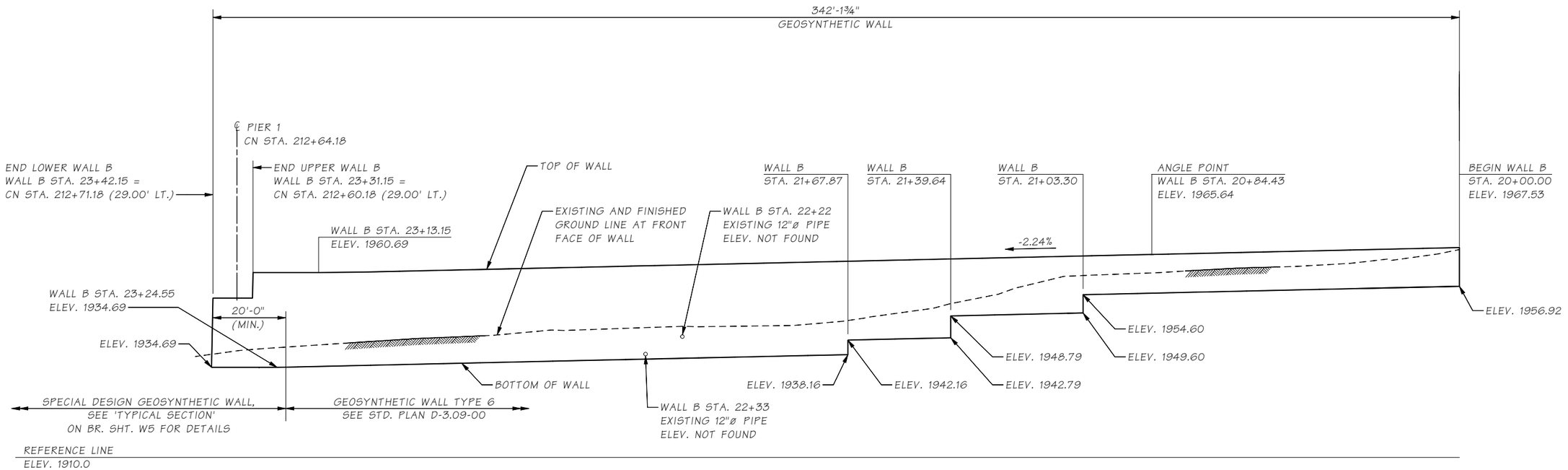
I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCURE

WALL B
LAYOUT

BRIDGE SHEET NO. W1

SHEET 55 OF 108 SHEETS

Thu Mar 24 07:14:27 2022



DEVELOPED ELEVATION

TEMPORARY BARRIER, CRUSHED SURFACING BASE COURSE AND HMA NOT SHOWN FOR CLARITY. REFER TO THE CIVIL SHEETS FOR PROFILE GRADE INFORMATION.

DATUM

N.A.V.D. OF 1988

SR ____ FILE NO. ____ SHEET w2

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\ACROW WALLS\window files\02 ELEV WALL B.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT					10	WASH.			
Designed By	Rodda, NT 11/21					JOB NUMBER 22Y001				
Checked By	Chavez, G 03/22					CONTRACT NO.				
Detailed By	Davis, E 11/21									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

P.E. STAMP BOX
NICHOLAS T. RODDA
STATE OF WASHINGTON
47298
PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX
BIJAN KHALEGHI
STATE OF WASHINGTON
37695
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCURE

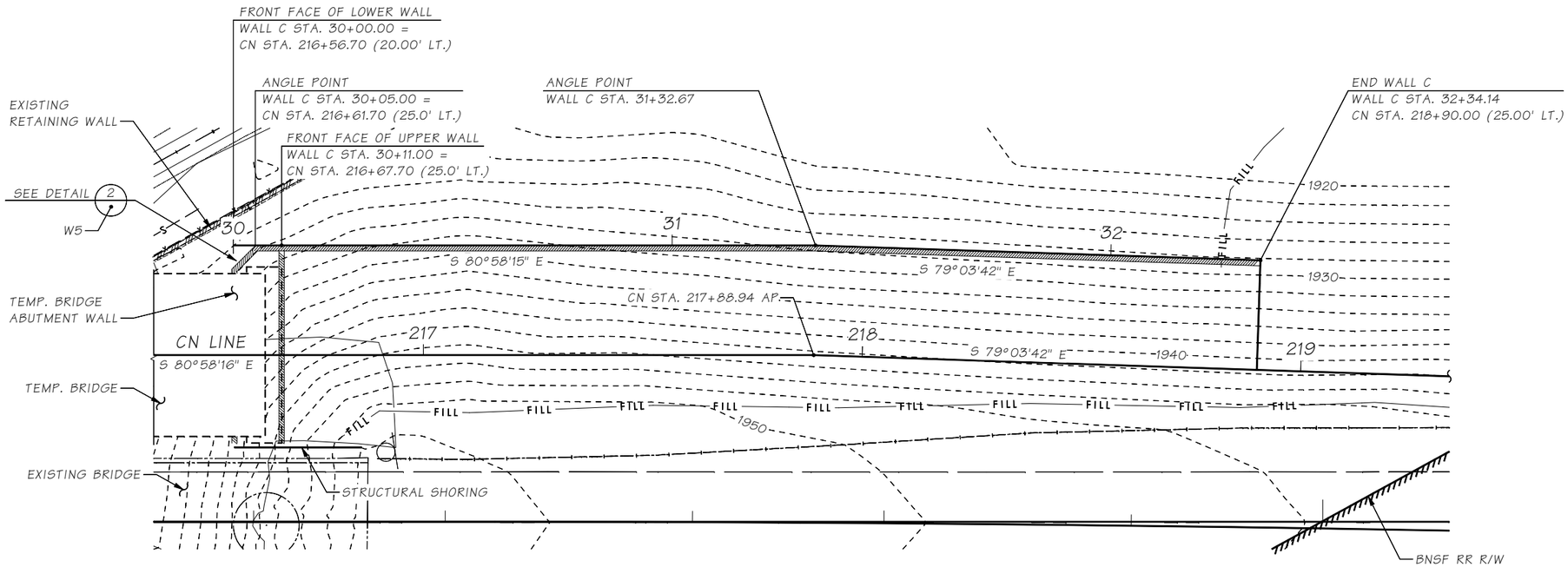
WALL B
ELEVATION

BRIDGE SHEET NO. W2
SHEET 56 OF 108 SHEETS

Thu Mar 24 07:14:48 2022

SEC. 27, T.20N., R.15E., W.M.
CITY OF CLE ELUM

I-90



PLAN

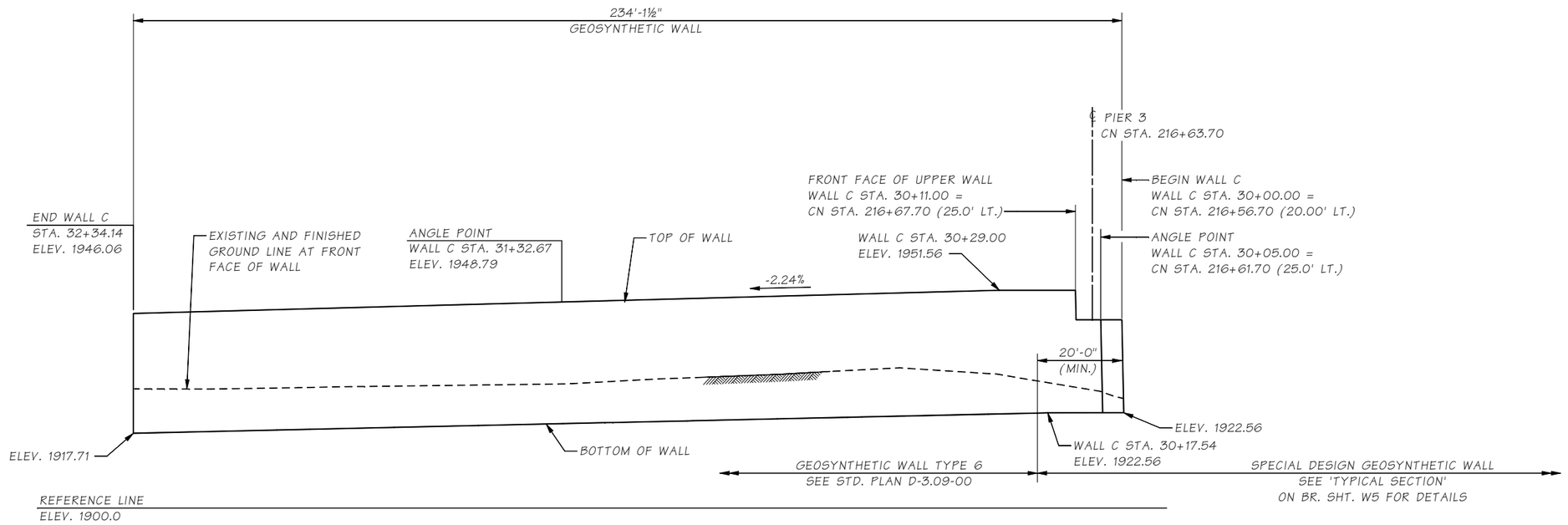
GEOSYNTHETIC WALL

SR FILE NO. SHEET W3

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\ACROW WALLS\window files\03 LAYOUT WALL C.WND				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	P.E. STAMP BOX
Supervisor	Rodda, NT					10	WASH.				SEE SHEET CT1 DATE:
Designed By	Rodda, NT 11/21					JOB NUMBER 22YO01					BRIDGE AND STRUCTURES OFFICE
Checked By	Chavez, G 03/22					CONTRACT NO.					P.E. STAMP BOX
Detailed By	Davis, E 11/21										BILIAN KHALEGHI STATE OF WASHINGTON 37695 STRUCTURAL ENGINEER PROFESSIONAL ENGINEER SEE SHEET CT1 DATE:
Bridge Projects Engr.											Washington State Department of Transportation
Prelim. Plan By											I-90 S CLE ELUM RD BRIDGES DECK REHABILITATION TEMPORARY STRUCURE
Architect/Specialist		DATE	REVISION	BY	APP'D						WALL C LAYOUT

BRIDGE SHEET NO. W3
SHEET 57 OF 108 SHEETS

Thu Mar 24 07:14:50 2022



DEVELOPED ELEVATION

TEMPORARY BARRIER, CRUSHED SURFACING BASE COURSE AND HMA NOT SHOWN FOR CLARITY. REFER TO THE CIVIL SHEETS FOR PROFILE GRADE INFORMATION.

DATUM

N.A.V.D. OF 1988

SR ____ FILE NO. ____ SHEET W4

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\ACROW WALLS\window files\04 ELEV WALL C.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	P.E. STAMP BOX
Supervisor	Rodda, NT					10	WASH.				NICHOLAS T. RODDA, STATE OF WASHINGTON, 47296, PROFESSIONAL ENGINEER
Designed By	Rodda, NT 11/21					JOB NUMBER 22Y001					SEE SHEET CT1
Checked By	Chavez, G 03/22					CONTRACT NO.					DATE:
Detailed By	Davis, E 11/21										BRIDGE AND STRUCTURES OFFICE
Bridge Projects Engr.											P.E. STAMP BOX
Prelim. Plan By											BIJAN KHALEGHI, STATE OF WASHINGTON, 37695, PROFESSIONAL ENGINEER
Architect/Specialist		DATE	REVISION	BY	APP'D						SEE SHEET CT1
											DATE:

Thu Mar 24 07:14:57 2022

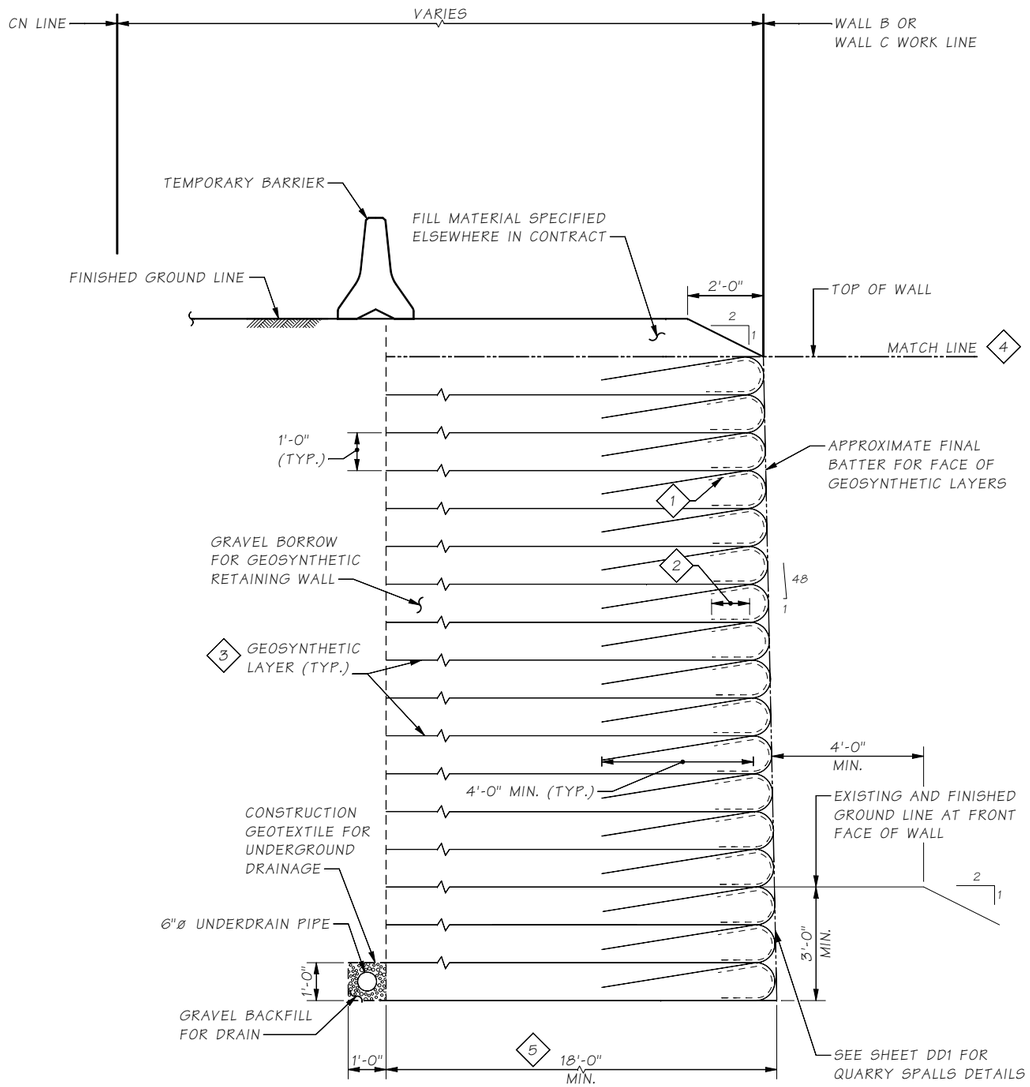
Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCURE

WALL C
ELEVATION

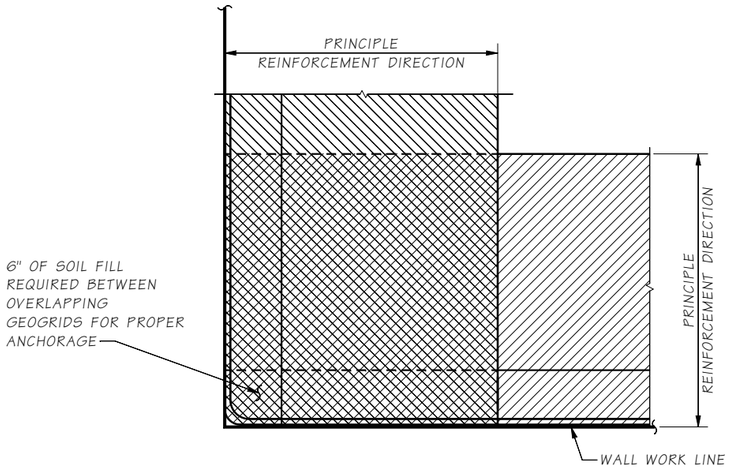
BRIDGE SHEET NO. W4

SHEET 58 OF 108 SHEETS



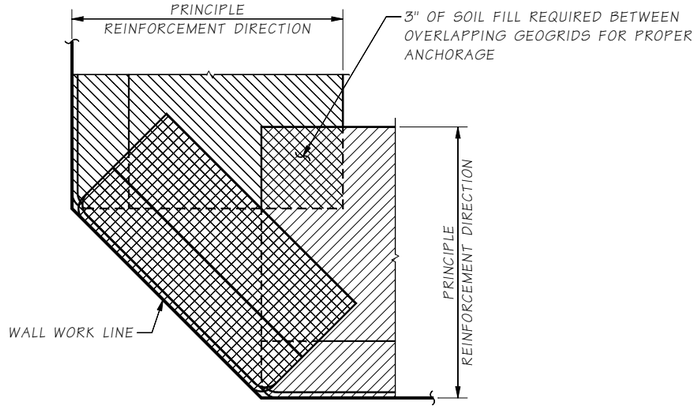
TYPICAL SECTION

LOOKING BACK ON STATION



DETAIL 1 / W1

90-DEGREE
OUTSIDE CORNER



DETAIL 2 / W3

45-DEGREE
OUTSIDE CORNER

KEY NOTES:

1. GEOTEXTILE FOR UNDERGROUND DRAINAGE CLASS A, LOW SURVIVABILITY (ONLY NEEDED IF A GEOGRID IS USED FOR GEOSYNTHETIC REINFORCEMENT)
2. 1'-0" MIN. GEOTEXTILE OVERLAP, TOP AND BOTTOM.
3. THE LONG-TERM GEOSYNTHETIC REINFORCEMENT STRENGTH REQUIRED IS 2225 LBS/FT MINIMUM.
4. FOR ABOVE MATCH LINE DETAILS SEE SHEET RS1.
5. GEOSYNTHETIC REINFORCEMENT LENGTH AND LIMITS OF STRUCTURE EXCAVATION CLASS A INCL. HAUL., WALL BACKFILL AND COMPACTION.

SR ____ FILE NO. ____ SHEET w5

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\ACROW WALLS\window files\05 WALL DET.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT					10	WASH.			
Designed By	Rodda, NT 11/21					JOB NUMBER 22Y001				
Checked By	Chavez, G 03/22					CONTRACT NO.				
Detailed By	Davis, E 11/21									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

P.E. STAMP BOX — NICHOLAS T. RODDA — STATE OF WASHINGTON — 47298 — PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX — BIJAN KHALEGHI — STATE OF WASHINGTON — 37695 — PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCURE

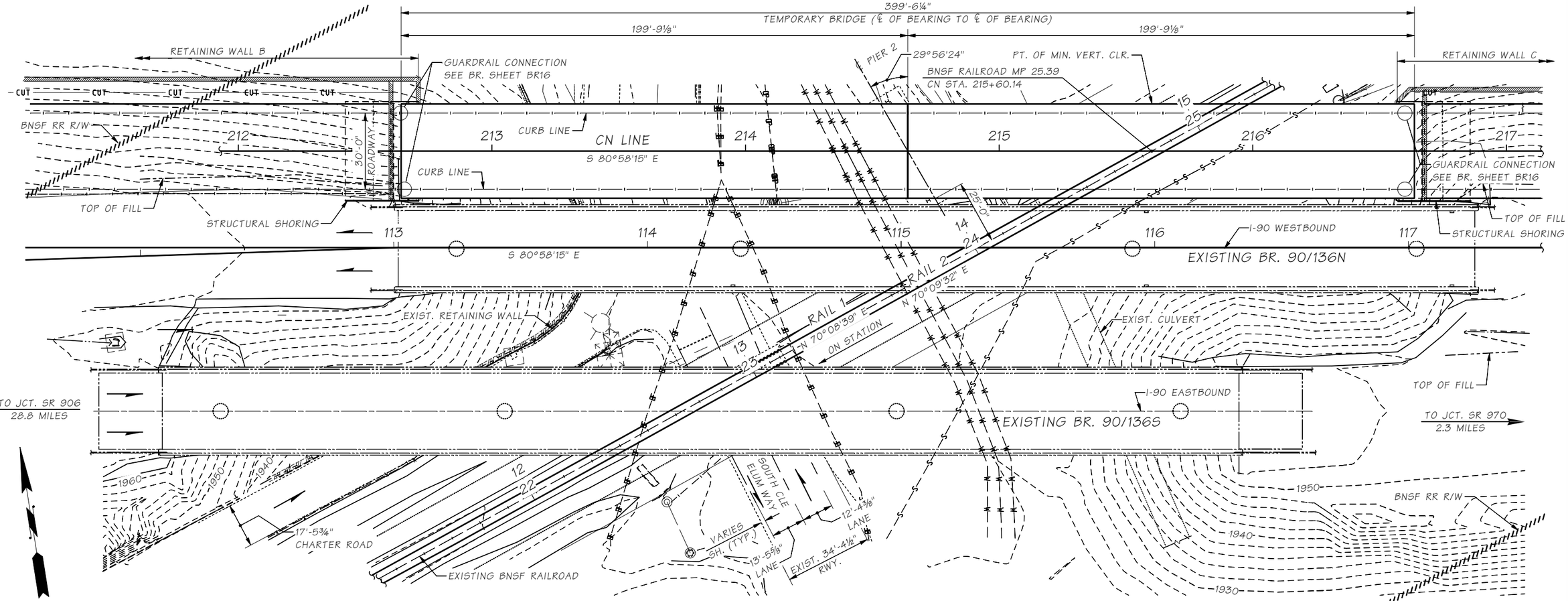
SPECIAL DESIGN
GEOSYNTHETIC WALL DETAILS

BRIDGE SHEET NO. W5
SHEET 59 OF 108 SHEETS

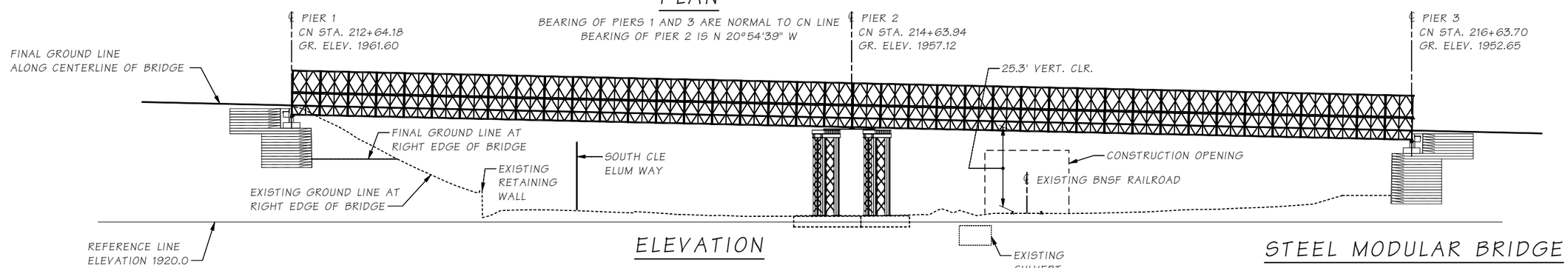
Thu Mar 24 07:14:58 2022

SEC. 27, T.20N., R.15E., W.M.
CITY OF CLE ELUM

I-90



PLAN



DATUM

NAVD 88

ELEVATION

GRADE ELEVATIONS SHOWN ARE FINISH GRADES AT TOP OF BRIDGE DECK ON CN LINE AND EQUAL TO PROFILE GRADE

STEEL MODULAR BRIDGE
LOADING: HL-93

SR 90 FILE NO. SHEET BA1

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\001 LAYOUT.wnd			REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT				10	WASH.			
Designed By	Chavez, G 09/21				JOB NUMBER 22Y001				
Checked By	Rodda, NT 02/22				CONTRACT NO.				
Detailed By	Davis, E 09/21								
Bridge Projects Engr.									
Prelim. Plan By									
Architect/Specialist		DATE	REVISION	BY	APP'D				

P.E. STAMP BOX
SEE SHEET CT1
DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX
BILIAN KHALEGHI
STATE OF WASHINGTON
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

Washington State Department of Transportation

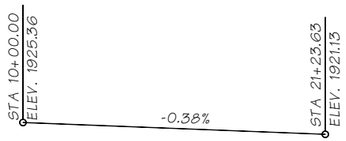
I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCTURE

LAYOUT

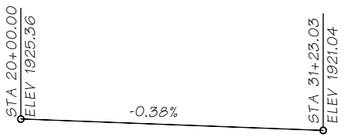
BRIDGE SHEET NO. BA1

SHEET 60 OF 108 SHEETS

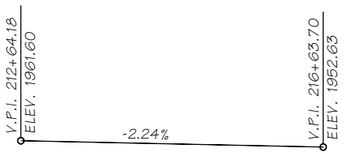
Mon Mar 28 07:53:37 2022



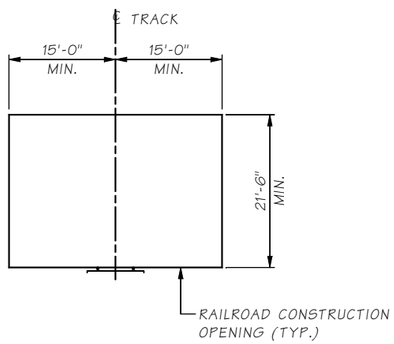
RAIL 1 PROFILE



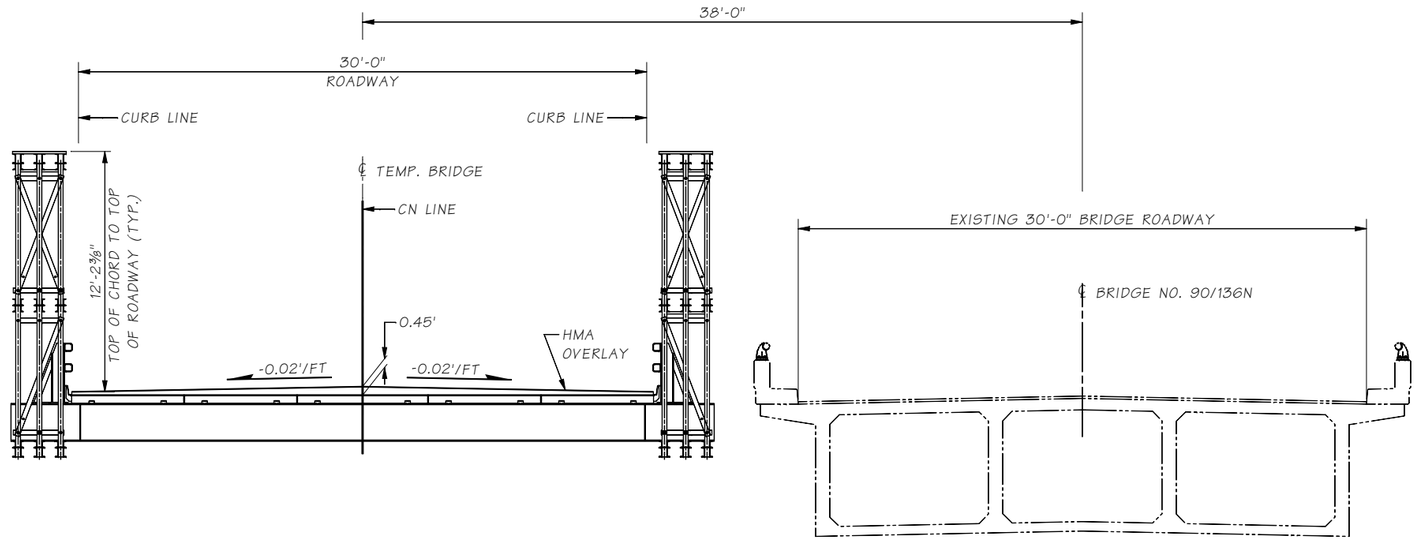
RAIL 2 PROFILE



CN LINE PROFILE



CONSTRUCTION OPENING DIAGRAM FOR RAILROAD



TYPICAL SECTION

SHOWN AT MIDSPAN

TEMPORARY STRUCTURE GENERAL NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION DATED 2022.
2. THIS TEMPORARY STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION 2020.
3. THE SEISMIC DESIGN OF THIS TEMPORARY STRUCTURE HAS BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 2ND EDITION 2011 WITH INTERIM THROUGH 2015, USING SEISMIC DESIGN CATEGORY C, SITE CLASS D, A PEAK GROUND ACCELERATION OF 0.20, AND 0.2 SECOND AND 1.0 SECOND SPECTRAL ACCELERATION OF 0.44 AND 0.13, RESPECTIVELY, ON SITE CLASS B. THE DESIGN RESPONSE SPECTRA FOR THIS STRUCTURE HAS BEEN REDUCED BY A FACTOR OF 2.5 TO CALCULATE THE COMPONENT ELASTIC FORCES.
4. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A 572 GR. 50 OR ASTM A992 GR. 50. STRUCTURAL STEEL DOES NOT NEED TO BE PAINTED OR GALVANIZED.
5. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1, LATEST EDITION AND SHALL BE DONE TO MINIMIZE DISTORTION. THE WELDING SEQUENCES AND WELD PROCEDURES TO BE USED SHALL BE SUBMITTED TO THE ENGINEER FOR ACCEPTANCE PRIOR TO THE START OF WELDING.
6. ALL TIMBER FOR USE AS A BOLSTER SHALL CONFORM TO SECTION 9-09 OF THE STANDARD SPECIFICATIONS.
7. ALL TIMBER SHALL BE TREATED PRIOR TO INSTALLATION WITH A SURFACE APPLIED WOOD PRESERVATIVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
8. ALL CONCRETE COMPONENTS SHALL BE CLASS 4000.
9. UNLESS OTHERWISE SHOWN IN THE PLANS, THE CONCRETE COVER MEASURED FROM THE FACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 3 INCHES.

LEGEND

- B / BA15 — IDENTIFIES SECTION OR VIEW; TAKEN OR SHOWN ON BRIDGE SHEET BA15
- 1 / — IDENTIFIES DETAIL; TAKEN OR SHOWN ON THE SAME SHEET
- EXISTING POWER METER BOX
- EXISTING J-BOX UNKNOWN
- EXISTING CATCH BASIN
- EXISTING LIGHT STANDARD SINGLE METAL
- P — EXISTING UTILITY POLE
- EXISTING CONTROLLER CABINET
- —S— —S— —S— EXISTING SANITARY SEWER LINE
- —OP— —OP— —OP— EXISTING OVERHEAD POWER
- —W— —W— —W— EXISTING WATER LINE
- —BF— —BF— —BF— EXISTING BURIED FIBER OPTIC
- EXISTING GUARD RAIL
- EXISTING RETAINING WALL
- —x— —x— —x— EXISTING FENCE

SR 90 FILE NO. SHEET BA2

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\002 GEN NOTES.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT					10	WASH.			
Designed By	Chavez, G 11/21					JOB NUMBER 22Y001				
Checked By	Rodda, NT 03/22					CONTRACT NO.				
Detailed By	Davis, E 11/21									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

P.E. STAMP BOX — NICHOLAS T. ROSA — STATE OF WASHINGTON — 47296 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX — BIJAN KHALEGHI — STATE OF WASHINGTON — 27000 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

Washington State Department of Transportation

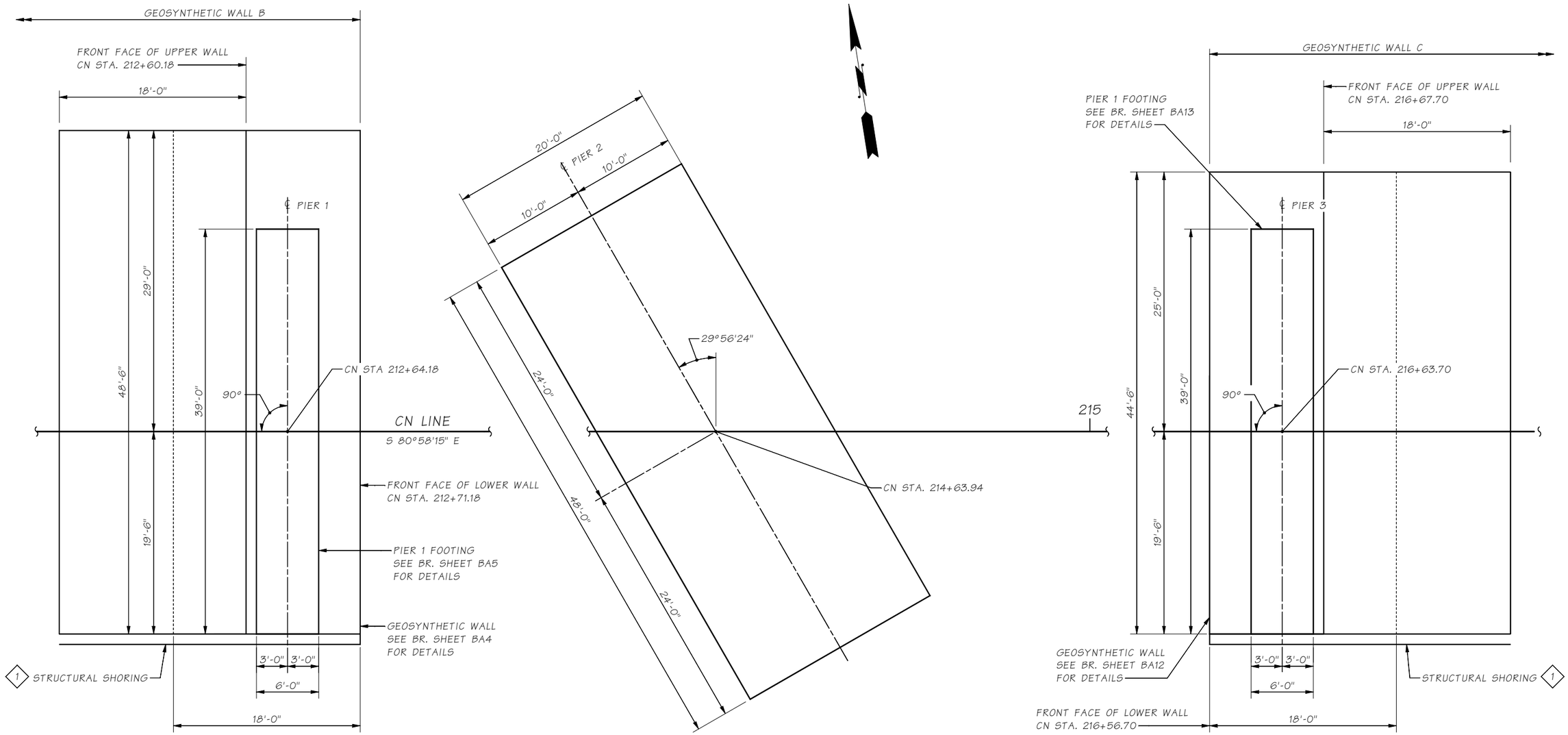
I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCTURE

GENERAL NOTES

BRIDGE SHEET NO. BA2

SHEET 61 OF 108 SHEETS

Mon Mar 28 07:55:40 2022



FOUNDATION LAYOUT

BEARING OF PIERS 1 AND 3 ARE NORMAL TO CN LINE
BEARING OF PIER 2 IS N 20°54'39" W

1 IN ADDITION TO THE REQUIREMENTS OF SECTION 2-09.3(3)D, STRUCTURAL SHORING SHALL BE DESIGNED FOR ANY SURCHARGE LOADING RESULTING FROM ACROW BRIDGE ERECTION OPERATIONS OR FINAL DEAD PLUS LIVE LOADING, WHICHEVER IS GREATER.

SR 90 FILE NO. SHEET BA3

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\003 FND LAYOUT.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT					10	WASH.			
Designed By	Chavez, G 11/21					JOB NUMBER 22Y001				
Checked By	Rodda, NT 02/22					CONTRACT NO.				
Detailed By	Davis, E 11/21									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

Mon Mar 28 07:53:45 2022

P.E. STAMP BOX — NICHOLAS T. RODDA — STATE OF WASHINGTON — 47298 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX — BIJAN KHALEGHI — STATE OF WASHINGTON — 27695 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

Washington State Department of Transportation

I-90
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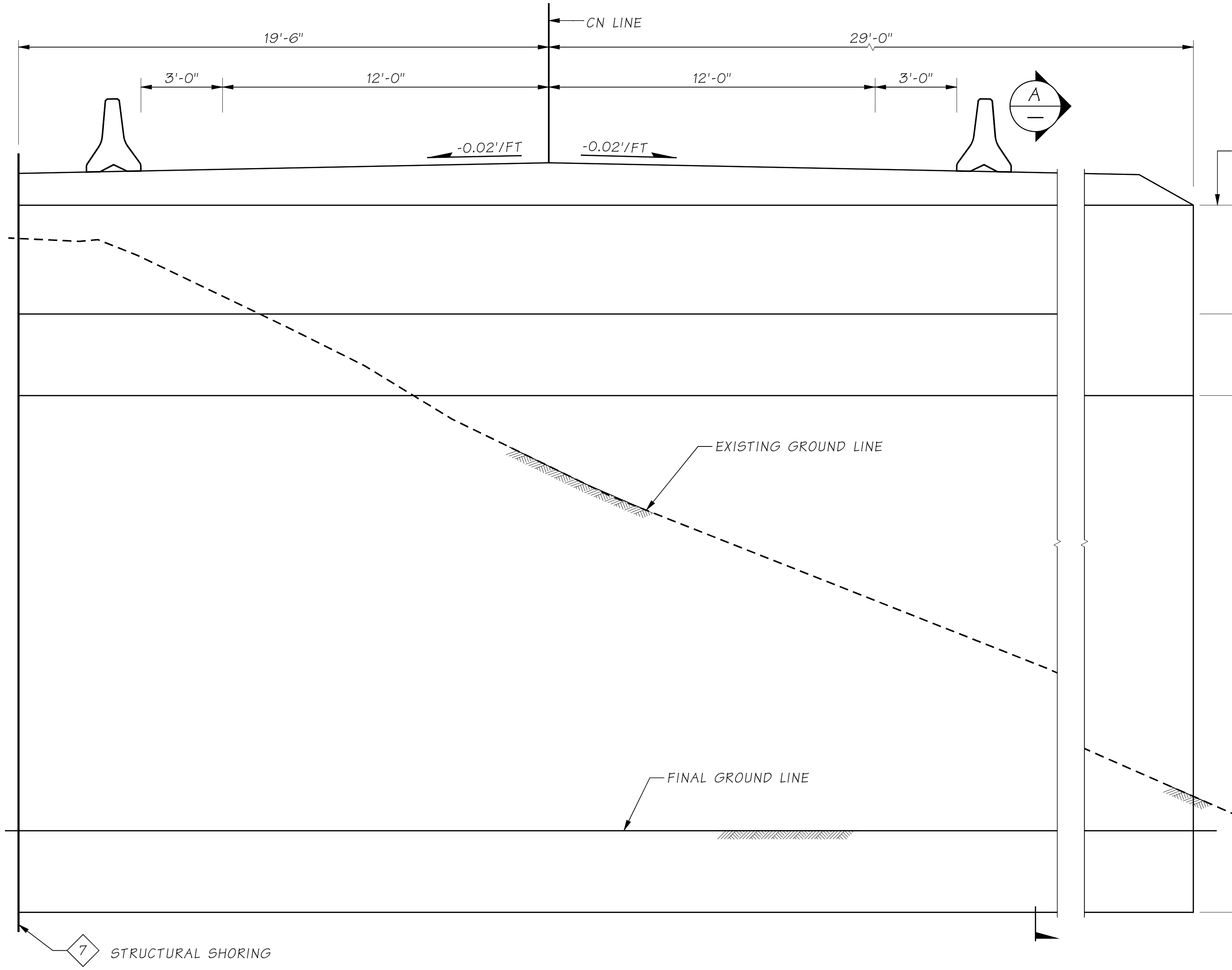
DECK REHABILITATION
TEMPORARY STRUCTURE

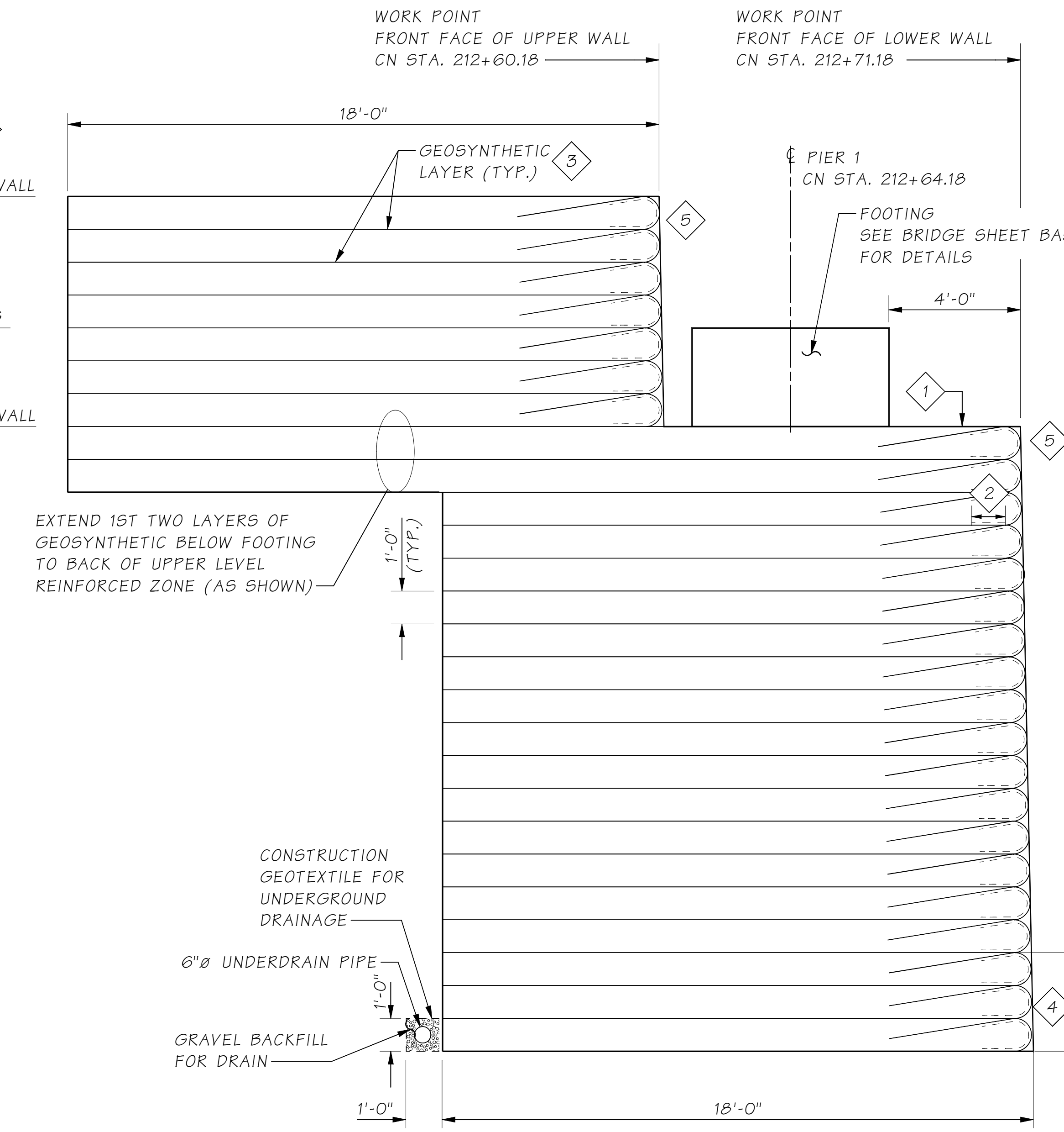
FOUNDATION PLAN

BRIDGE SHEET NO. BA3
SHEET 62 OF 108 SHEETS



ELEVATION

LOOKING BACK ON STATION



SECTION A

KEY NOTES:

1. GEOTEXTILE FOR UNDERGROUND DRAINAGE CLASS A, LOW SURVIVABILITY (ONLY NEEDED IF A GEOGRID IS USED FOR GEOSYNTHETIC REINFORCEMENT)
2. 1'-0" MIN. GEOTEXTILE OVERLAP, TOP AND BOTTOM.
3. THE LONG-TERM GEOSYNTHETIC REINFORCEMENT STRENGTH REQUIRED IS 2225 LBS/FT MINIMUM.
4. 3'-0" MIN. EMBEDMENT
5. 48:1 SLOPE
6. FOR ABOVE MATCH LINE DETAILS, SEE SHEET RS1
7. IN ADDITION TO THE REQUIREMENTS OF SECTION 2-09.3(3)D, STRUCTURAL SHORING SHALL BE DESIGNED FOR ANY SURCHARGE LOADING RESULTING FROM ACROW BRIDGE ERECTION OPERATIONS OR FINAL DEAD PLUS LIVE LOADING, WHICHEVER IS GREATER.

SR 90 FILE NO. ____ SHEET BA4

Bridge Design Engr.	Khaleghi, B	
Supervisor	Rodda, NT	
Designed By	Chavez, G	11/21
Checked By	Rodda, NT	02/22
Detailed By	Davis, E	11/21
Bridge Projects Engr.		
Prelim. Plan By		
Architect/Specialist		

M:\W-Team\XL5987 ACROW BRIDGE\window files\004 PIER 1.wnd

DATE	REVISION	BY	APP'D

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.			

JOB NUMBER 22Y001

CONTRACT NO.

P.E. STAMP BOX — NICHOLAS T. RODDA, STATE OF WASHINGTON, 47298, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX — BIJAN KHALEGHI, STATE OF WASHINGTON, 27695, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

Washington State Department of Transportation

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DECK REHABILITATION
TEMPORARY STRUCTURE

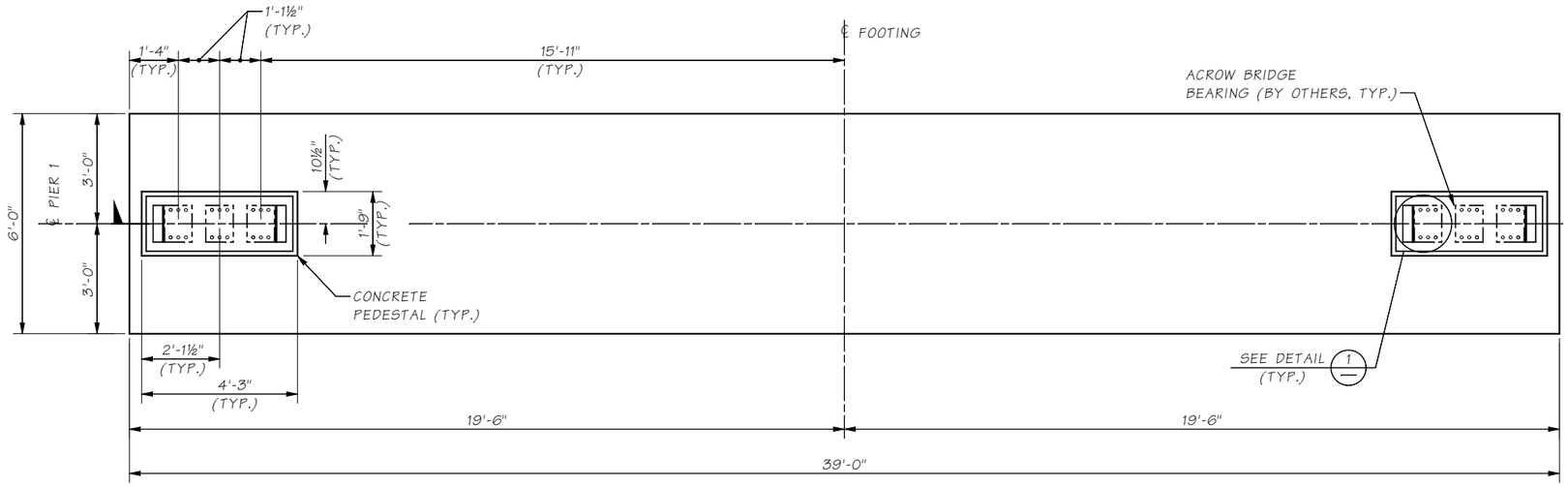
PIER 1
GEOSYNTHETIC WALL DETAILS

BRIDGE SHEET NO. BA4

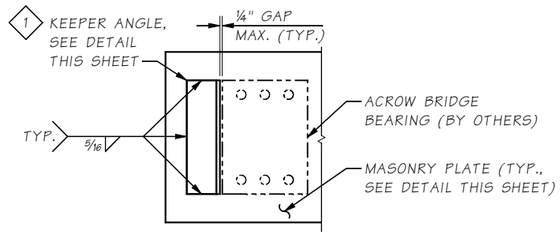
SHEET 63 OF 108 SHEETS

Mon Mar 28 07:53:50 2022

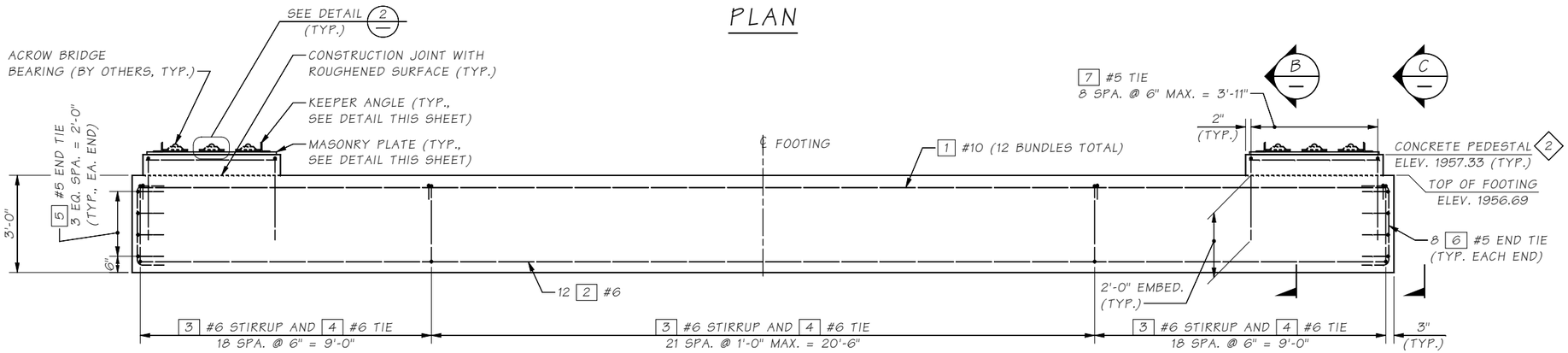
1. OTHER ANGLE SIZES MAY BE SUBSTITUTED AS NECESSARY.
2. CONCRETE PEDESTAL ELEVATIONS ARE BASED ON PRELIMINARY INFORMATION. ADJUSTMENTS SHALL BE MADE TO PEDESTAL ELEVATIONS BASED ON APPROVED ACROW SHOP DRAWINGS.



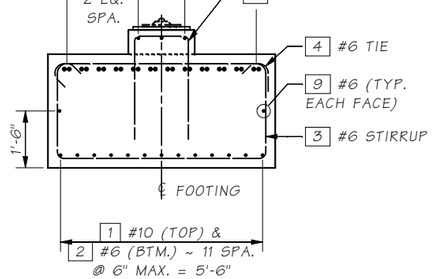
PLAN



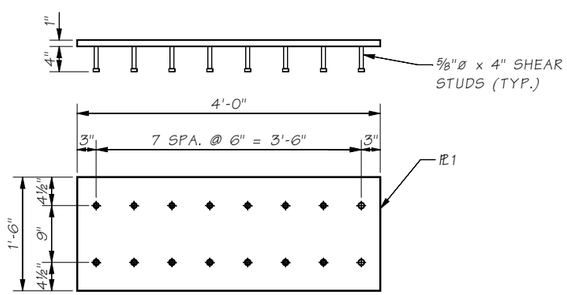
DETAIL 1



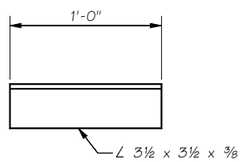
SECTION A



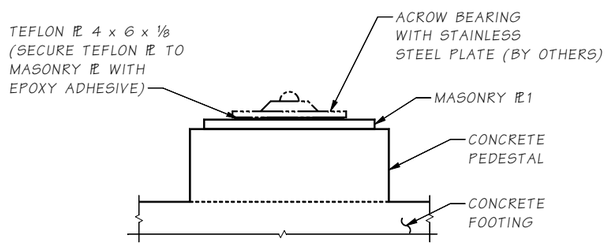
SECTION B



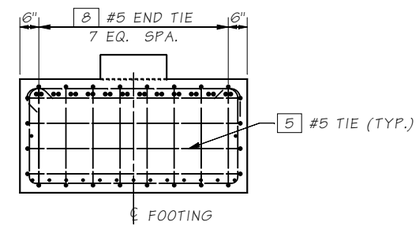
MASONRY PLATE



KEEPER ANGLE



DETAIL 2



VIEW C

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\005 P1 FOOTING.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT					10	WASH.			
Designed By	Chavez, G 11/21					JOB NUMBER 22Y001				
Checked By	Rodda, NT 02/22					CONTRACT NO.				
Detailed By	Davis, E 11/21									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

P.E. STAMP BOX
NICHOLAS T. RODDA — STATE OF WASHINGTON — 47296 — PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX
BIJAN KHALEGHI — STATE OF WASHINGTON — 27695 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCTURE

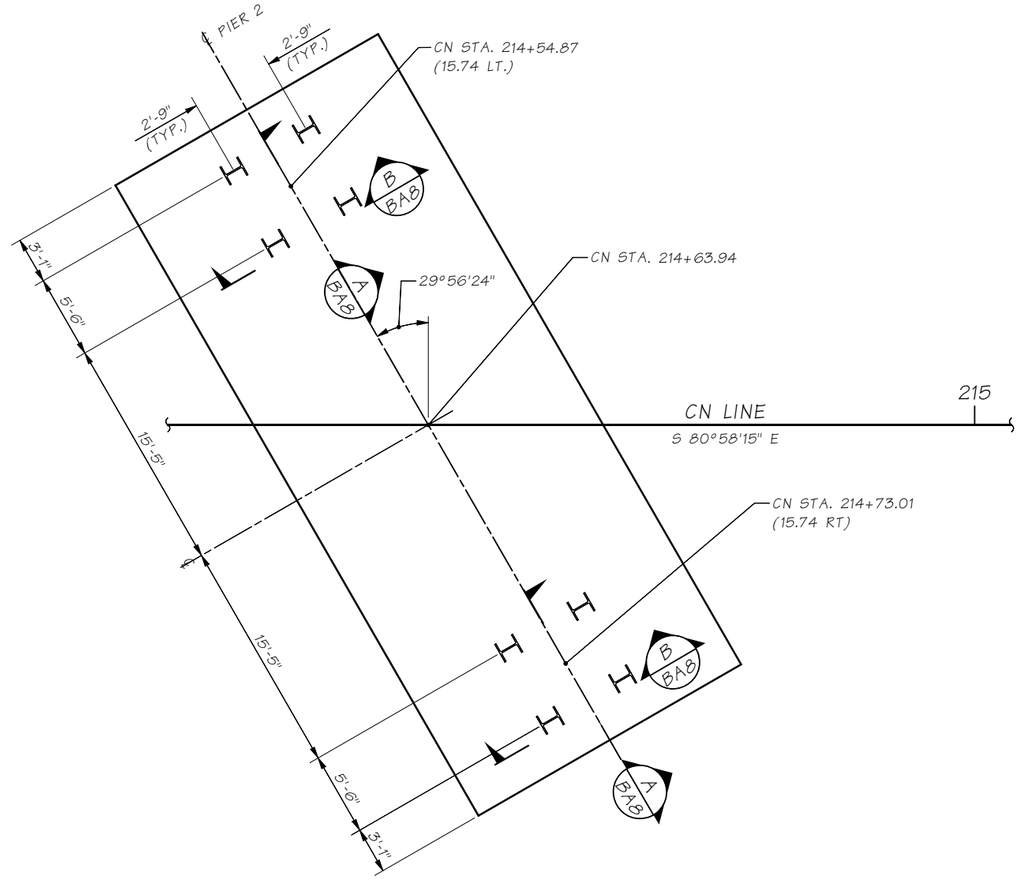
PIER 1
FOOTING DETAILS

BRIDGE SHEET NO. BA5

SHEET 64 OF 108 SHEETS

SR 90 FILE NO. SHEET BA5

Mon Mar 28 07:53:52 2022



PIER 2
GEOMETRY PLAN

PIER CAPS AND BRACING NOT SHOW FOR CLARITY

SR 90 FILE NO. ____ SHEET BA6

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\005 P2 GEO.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT					10	WASH.			
Designed By	Chavez, G 11/21					JOB NUMBER 22Y001				
Checked By	Reid, Z 02/22					CONTRACT NO.				
Detailed By	Davis, E 11/21									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

P.E. STAMP BOX
NICHOLAS T. RODDA
STATE OF WASHINGTON
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
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P.E. STAMP BOX
BIJAN KHALEGHI
STATE OF WASHINGTON
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

Washington State Department of Transportation

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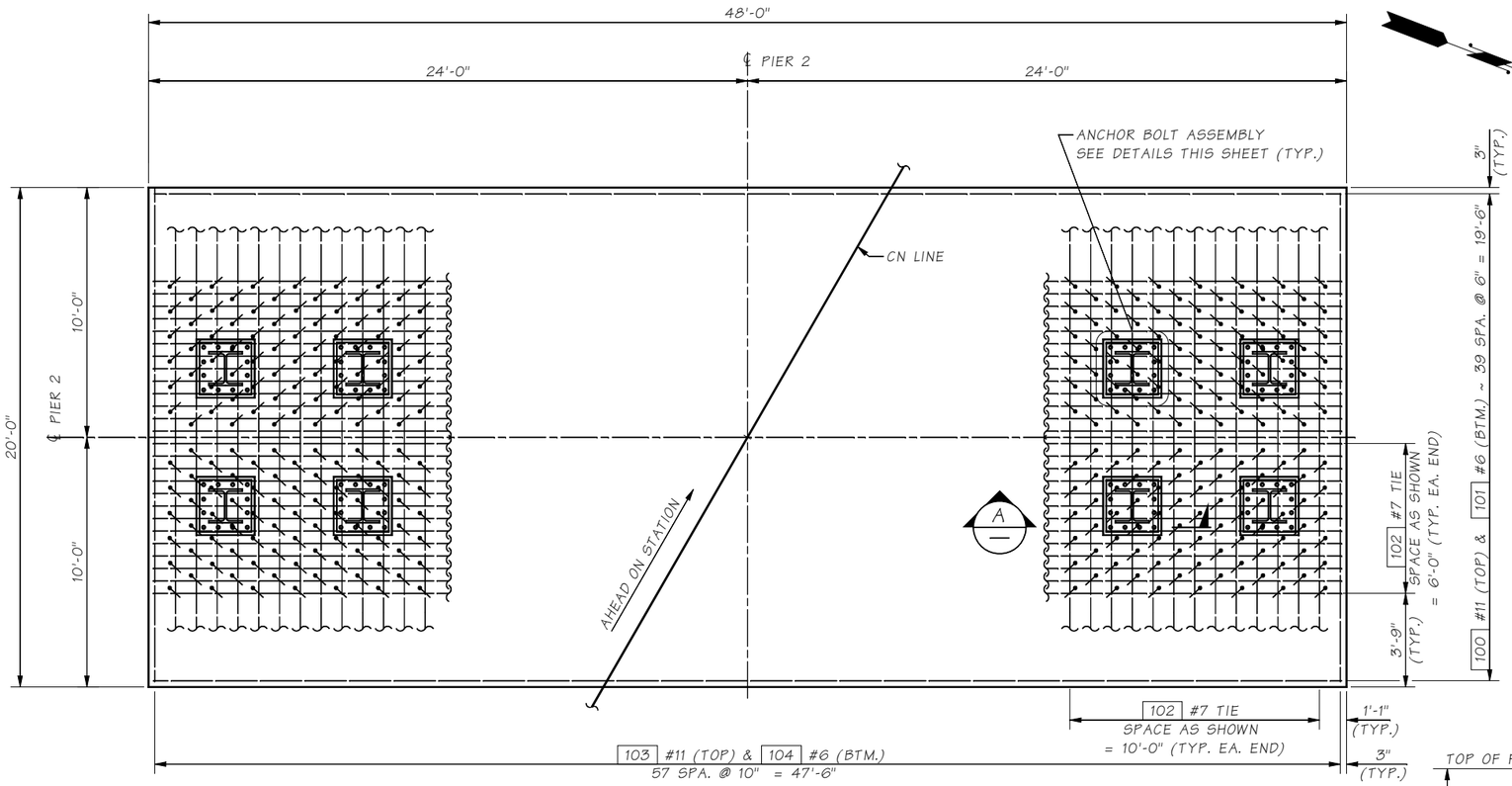
DECK REHABILITATION
TEMPORARY STRUCTURE

PIER 2 GEOMETRY

BRIDGE SHEET NO. BA6

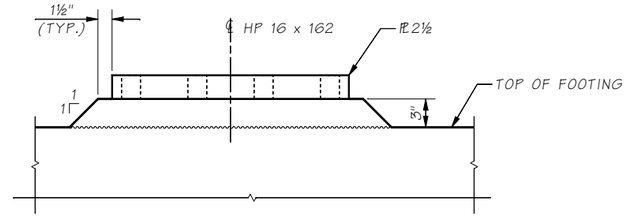
SHEET 65 OF 108 SHEETS

Mon Mar 28 07:53:55 2022

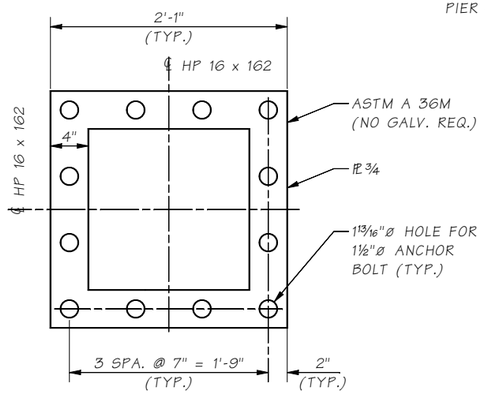


PLAN

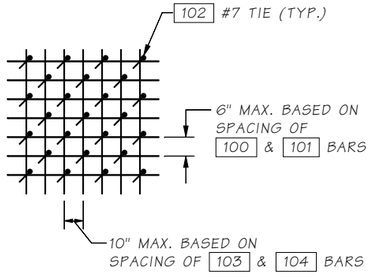
PIER 2
PIER CAP NOT SHOWN FOR CLARITY



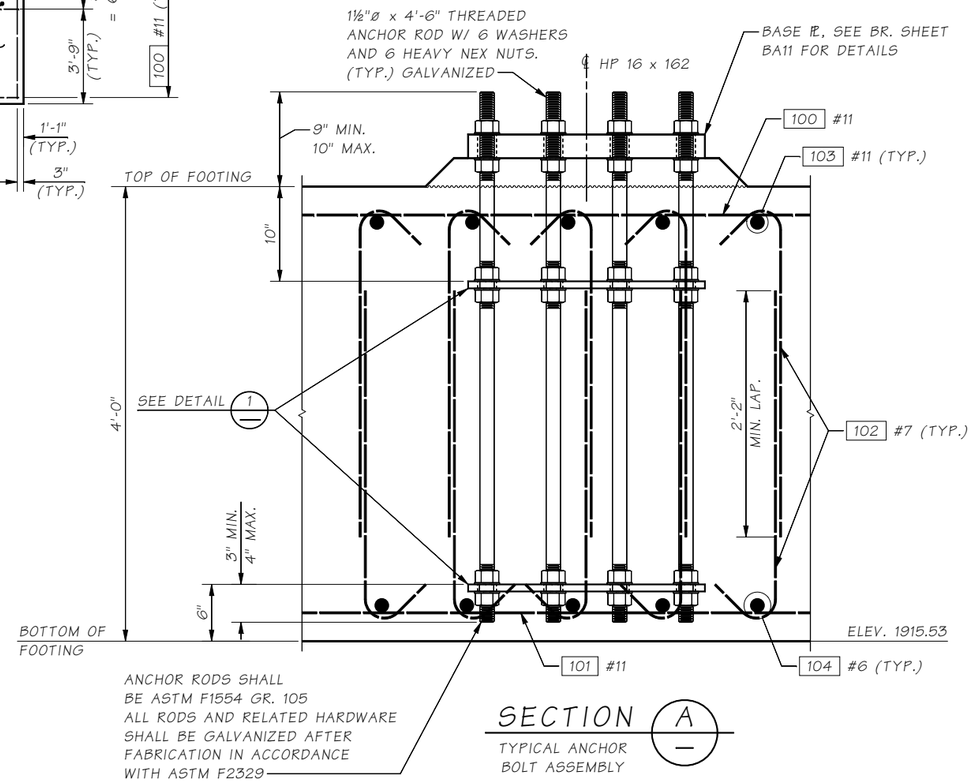
GROUT PAD DETAIL



DETAIL 1



TIE BAR SPACING DETAIL



SECTION A

TYPICAL ANCHOR BOLT ASSEMBLY

SR 90 FILE NO. SHEET BA7

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\006 P2 REINF.wnd									
Supervisor	Rodda, NT										
Designed By	Chavez, G 11/21										
Checked By	Reid, Z 02/22										
Detailed By	Davis, E 11/21										
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist		DATE	REVISION	BY	APP'D						

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.			
JOB NUMBER 22Y001				
CONTRACT NO.				

P.E. STAMP BOX
NICHOLAS T. RODDA
STATE OF WASHINGTON
47298
PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX
BIJAN KHALEGHI
STATE OF WASHINGTON
37690
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCTURE

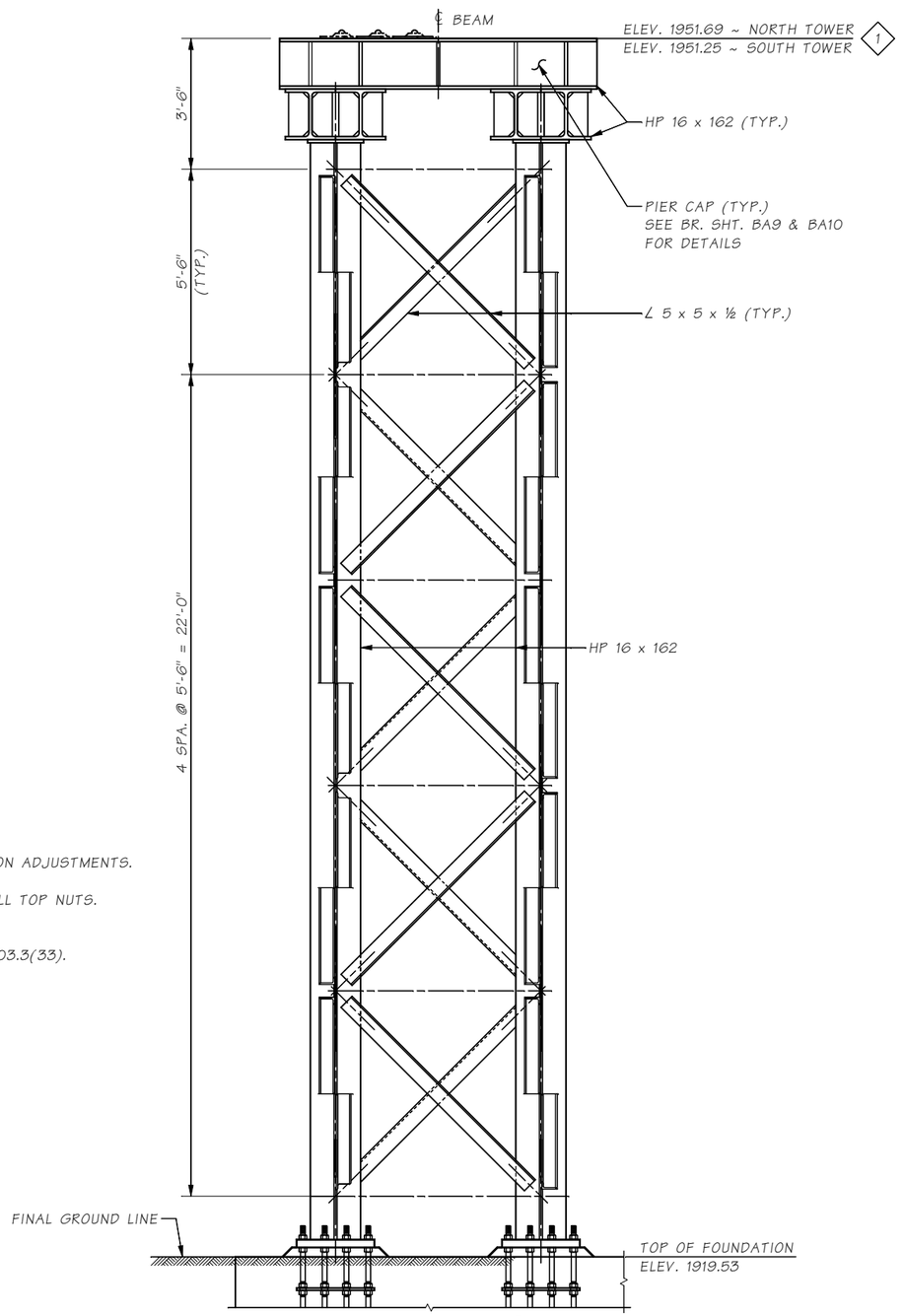
PIER 2
REINFORCEMENT

BRIDGE SHEET NO. BA7
SHEET 66 OF 108 SHEETS

Mon Mar 28 07:53:57 2022

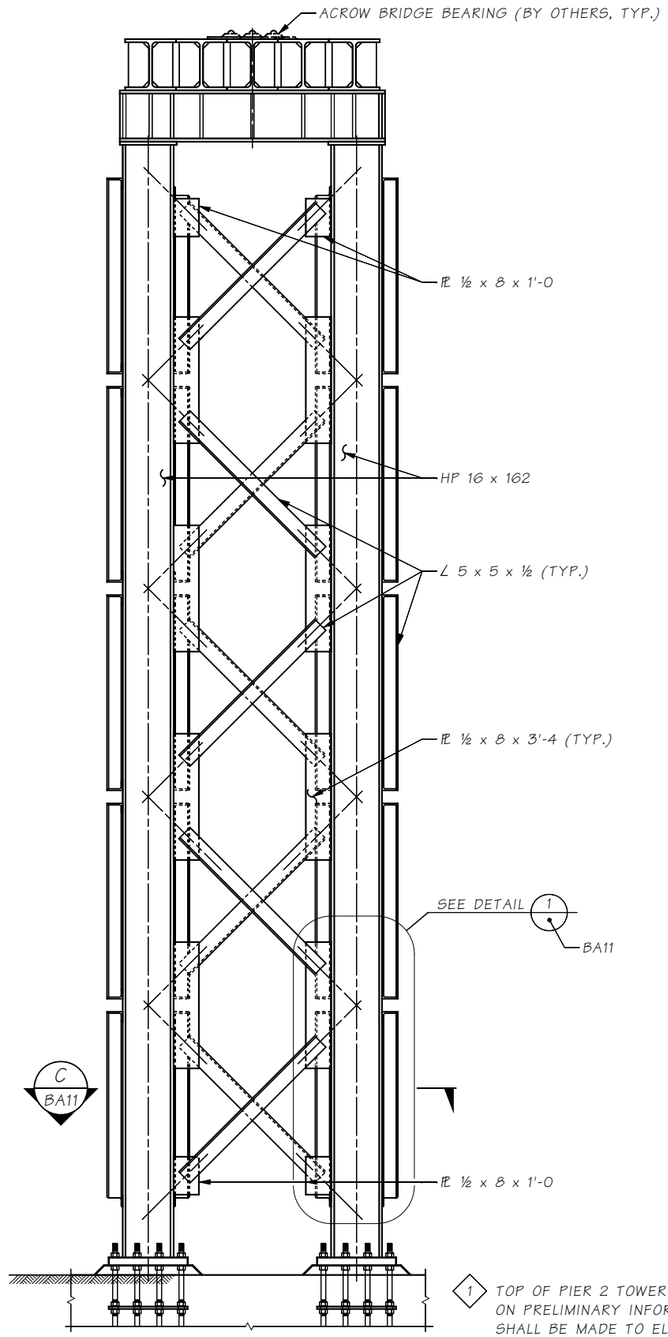
SUGGESTED CONSTRUCTION SEQUENCE

1. CAST FOOTING AND SET ANCHOR RODS.
2. INSTALL LOWER LEVELING NUTS FOR TOWER ELEVATION ADJUSTMENTS.
3. INSTALL TOWER LEGS ON LEVELING NUTS AND INSTALL TOP NUTS. TOWER LEGS SHALL BE PLUMB.
4. TENSION TOP NUT IN ACCORDANCE WITH SECTION 6-03.3(33).
5. POUR GROUT PAD.
6. IF TOWER IS NOT FABRICATED AS UNIT, INSTALL THE ANGLE DIAGONAL BRACING.
7. INSTALL TOP HP SUPPORT BEAMS AND BEARINGS



SECTION A (BA6)

PIER 2 NORTH TOWER SHOWN
PIER 2 SOUTH SIMILAR



SECTION B (BA6)

1 TOP OF PIER 2 TOWER ELEVATIONS ARE BASED ON PRELIMINARY INFORMATION. ADJUSTMENTS SHALL BE MADE TO ELEVATIONS BASED ON APPROVED ACROW SHOP DRAWINGS FINAL FIELD ADJUSTMENTS SHALL BE MADE WITH LEVELING NUT BELOW THE BASE PLATE - TYP.

SR 90 FILE NO. SHEET BA8

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\008 P2 NORTH DET2.wnd			REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT				10	WASH.			
Designed By	Reid, Z 01/22				JOB NUMBER 22Y001				
Checked By	Chavez, G 02/22				CONTRACT NO.				
Detailed By	Davis, E 01/22								
Bridge Projects Engr.									
Prelim. Plan By									
Architect/Specialist		DATE	REVISION	BY	APP'D				

P.E. STAMP BOX: ZACHARY D. REID, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX: NICHOLAS T. RODDA, STATE OF WASHINGTON, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

Washington State Department of Transportation

I-90
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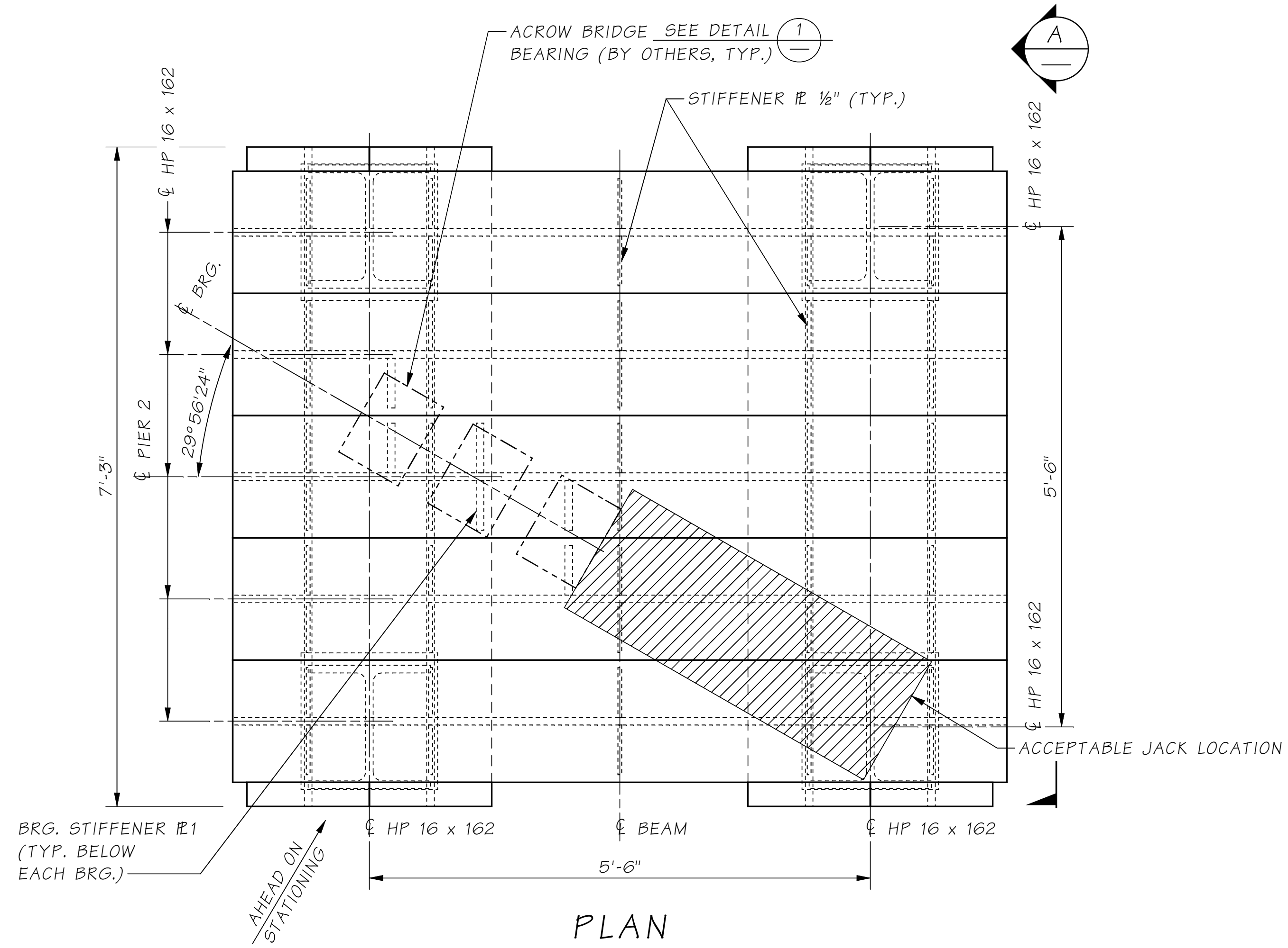
DECK REHABILITATION
TEMPORARY STRUCTURE

PIER 2 TOWER
DETAILS 1 OF 4

BRIDGE SHEET NO. BA8

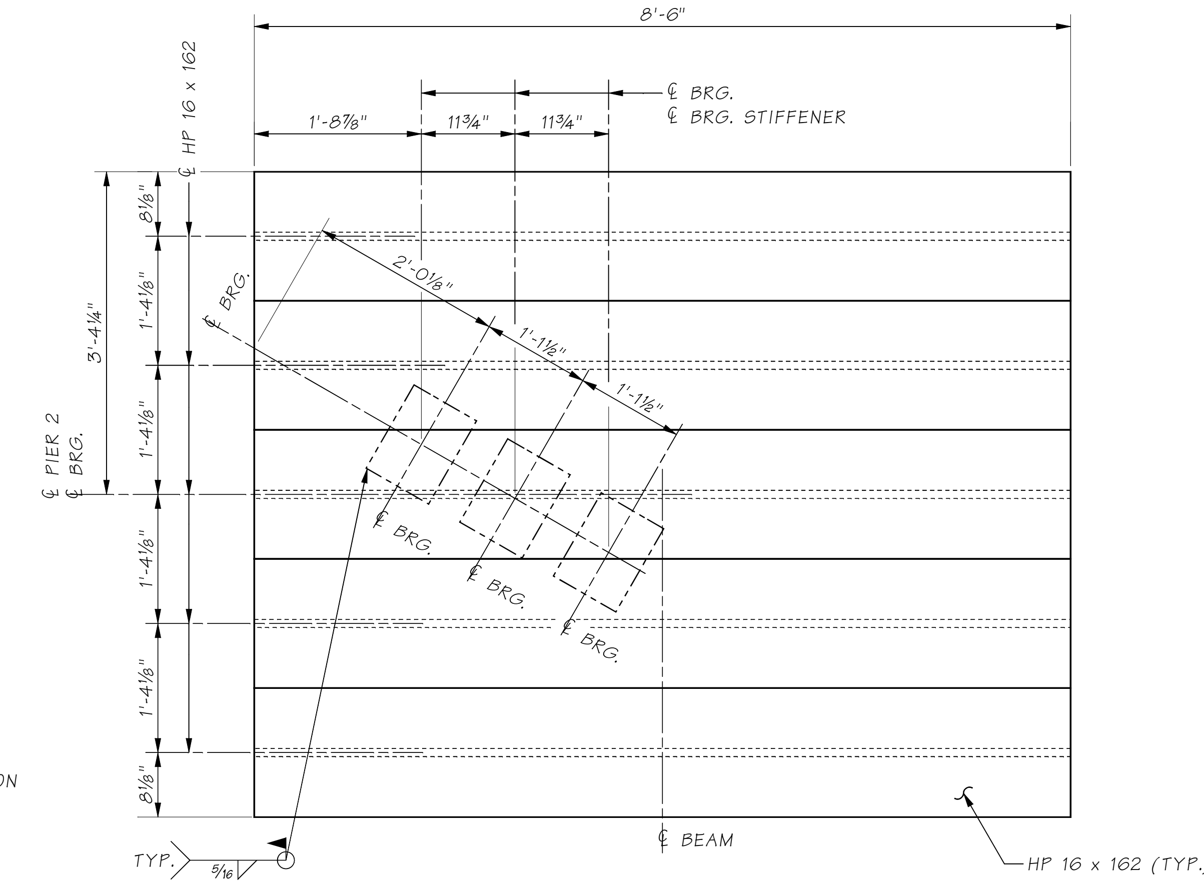
SHEET 67 OF 108 SHEETS

Mon Mar 28 07:53:59 2022

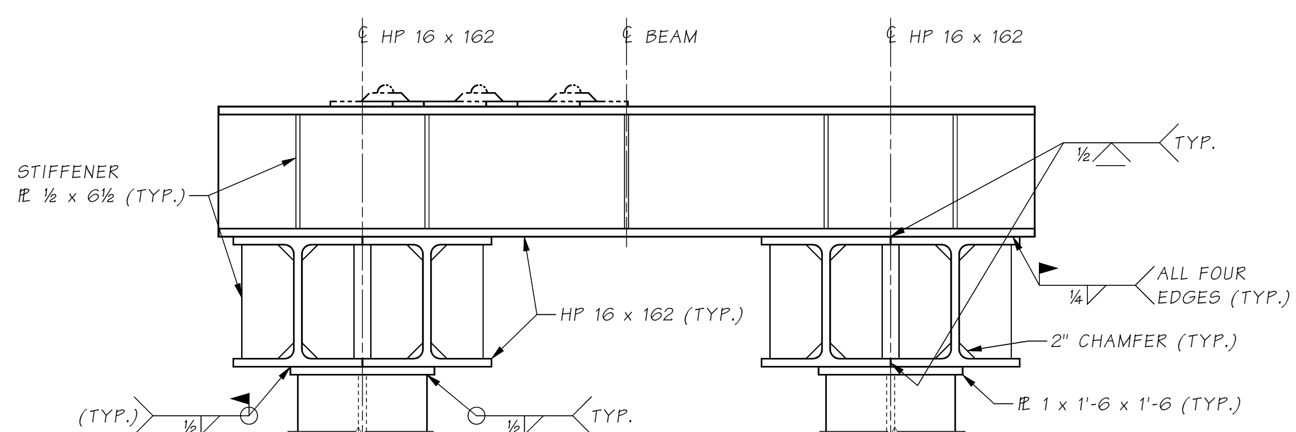


PLAN

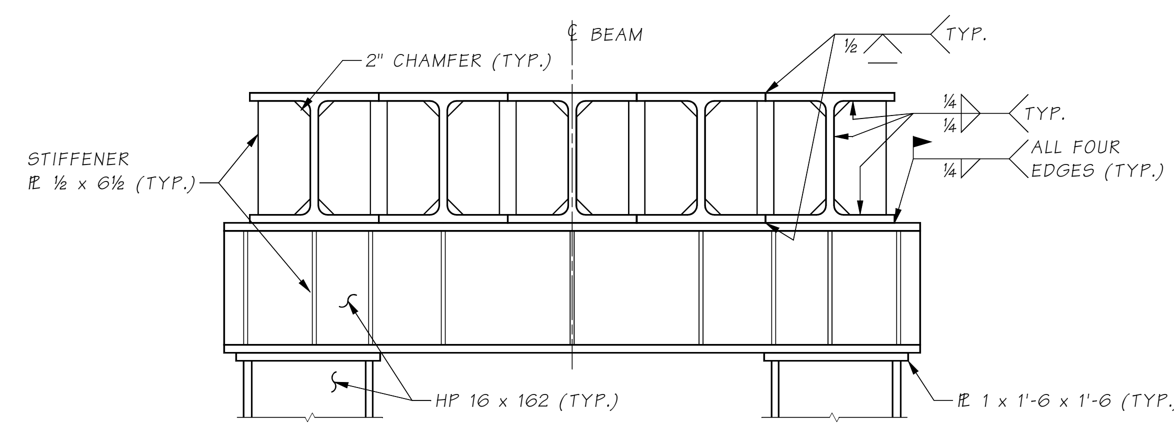
NORTH TOWER



DETAIL 1



ELEVATION



VIEW A

BEARINGS NOT
SHOWN FOR CLARITY

SR 90 FILE NO. ____ SHEET BA9

Bridge Design Engr.	Khaleghi, B	
Supervisor	Rodda, NT	
Designed By	Reid, Z	01/22
Checked By	Chavez, G	02/22
Detailed By	Davis, E	01/22
Bridge Projects Engr.		
Prelim. Plan By		
Architect/Specialist		

M:\W-Team\XL5987 ACROW BRIDGE\window files\009 P2 NORTH DET3.wnd

DATE	REVISION	BY	APP'D

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.			

JOB NUMBER 22Y001

CONTRACT NO.

P.E. STAMP BOX — ZACHARY D. REID, STATE OF WASHINGTON, 21019155, REGISTERED PROFESSIONAL ENGINEER — SEE SHEET CT1 DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX — NICHOLAS T. RODDA, STATE OF WASHINGTON, 47298, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER — SEE SHEET CT1 DATE:

Washington State Department of Transportation

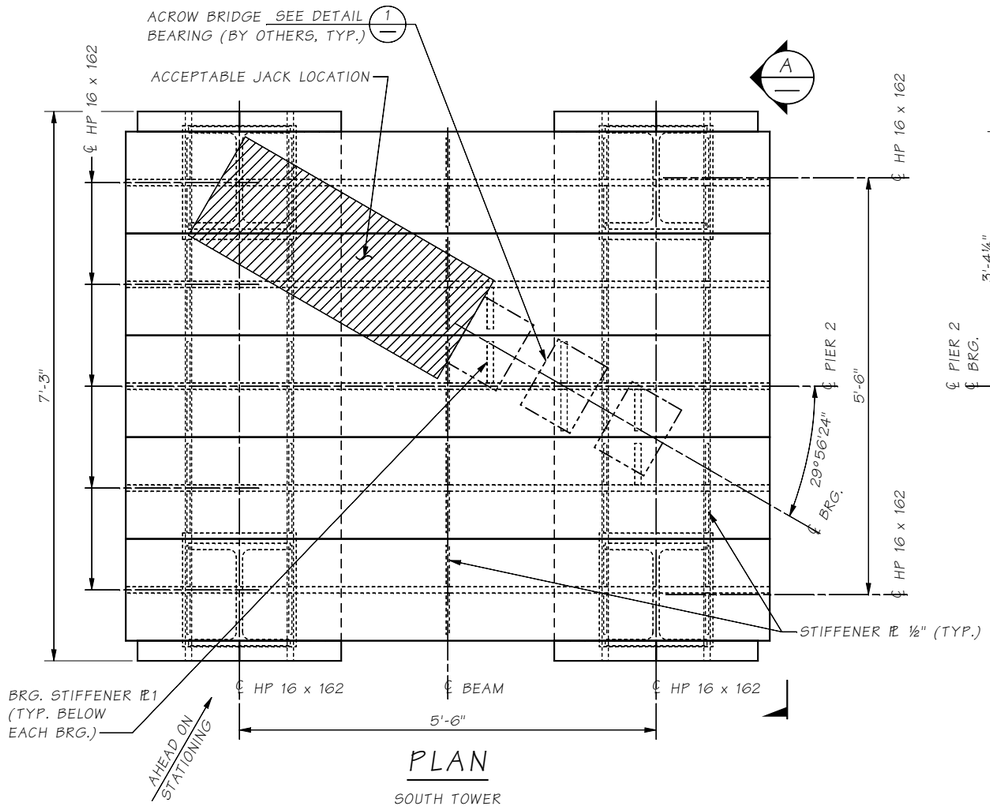
I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCTURE

PIER 2 TOWER
DETAILS 2 OF 4

BRIDGE SHEET NO. BA9

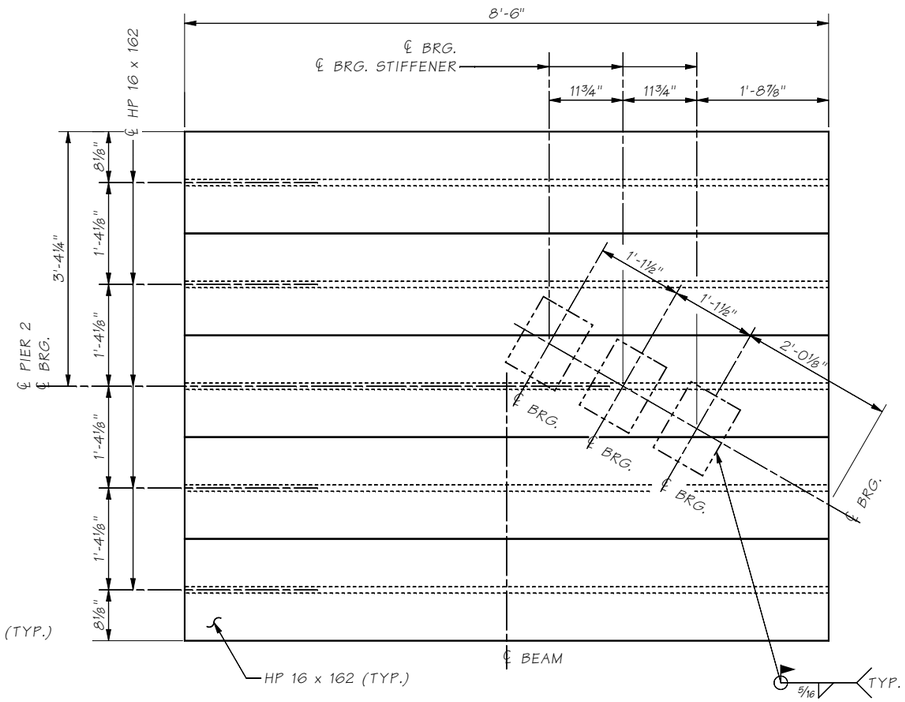
SHEET 68 OF 108 SHEETS

Mon Mar 28 07:54:02 2022

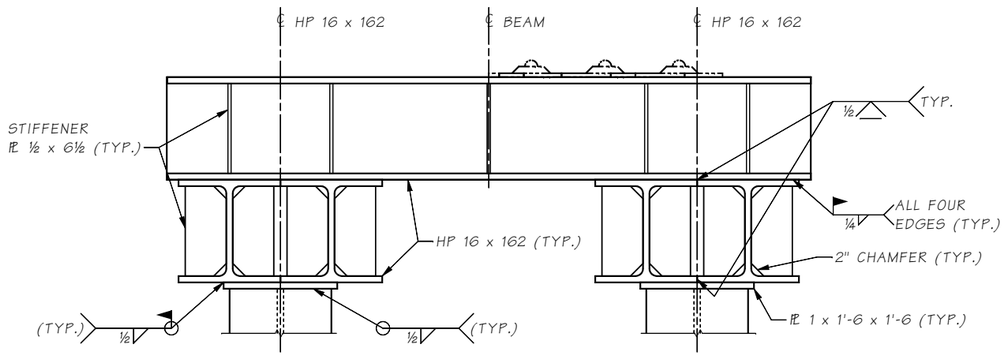


PLAN

SOUTH TOWER

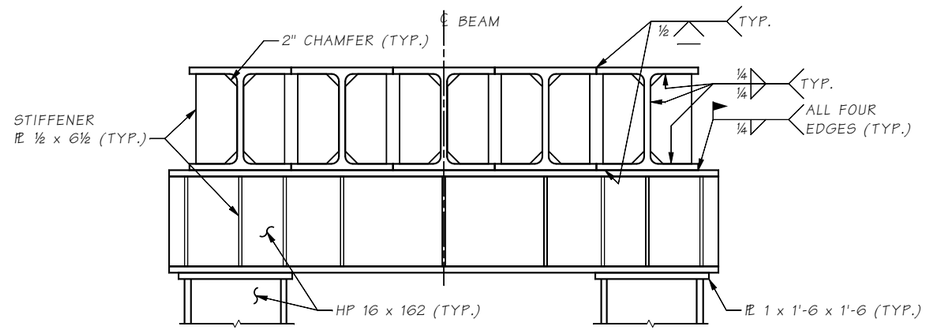


DETAIL 1



ELEVATION

SOUTH TOWER



VIEW A

BEARINGS NOT
SHOWN FOR CLARITY

SR 90 FILE NO. SHEET BA10

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\011 P2 SOUTH DET2.wnd			REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT				10	WASH.			
Designed By	Reid, Z 01/22				JOB NUMBER 22Y001				
Checked By	Chavez, G 02/22								
Detailed By	Davis, E 01/22				CONTRACT NO.				
Bridge Projects Engr.									
Prelim. Plan By									
Architect/Specialist		DATE	REVISION	BY	APP'D				

Mon Mar 28 07:54:04 2022

P.E. STAMP BOX
ZACHARY D. REID
STATE OF WASHINGTON
21019155
REGISTERED
PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX
NICHOLAS T. RODDA
STATE OF WASHINGTON
17296
PROFESSIONAL ENGINEER
AGRICULTURAL ENGINEER
SEE SHEET CT1
DATE:

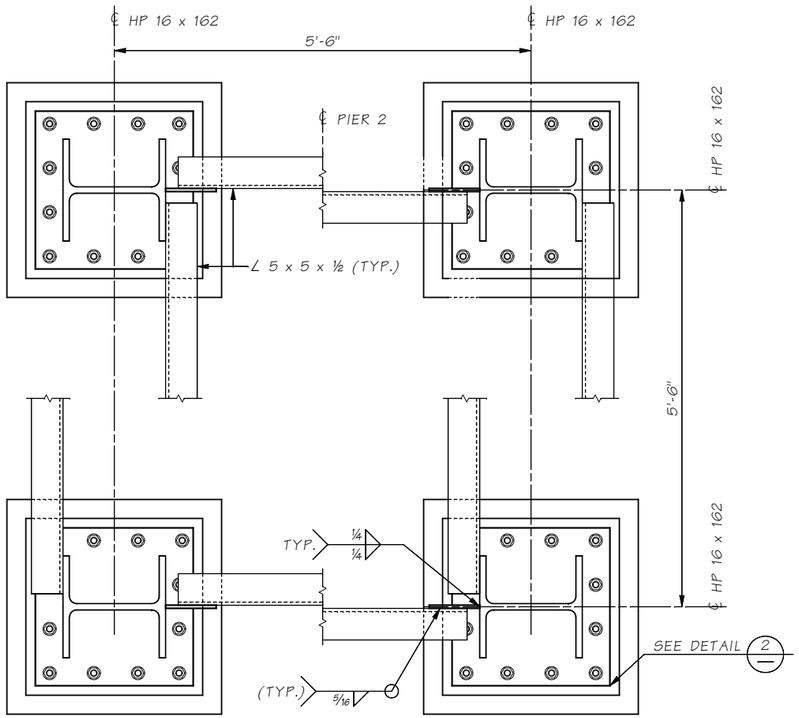
Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES DECK REHABILITATION
TEMPORARY STRUCTURE

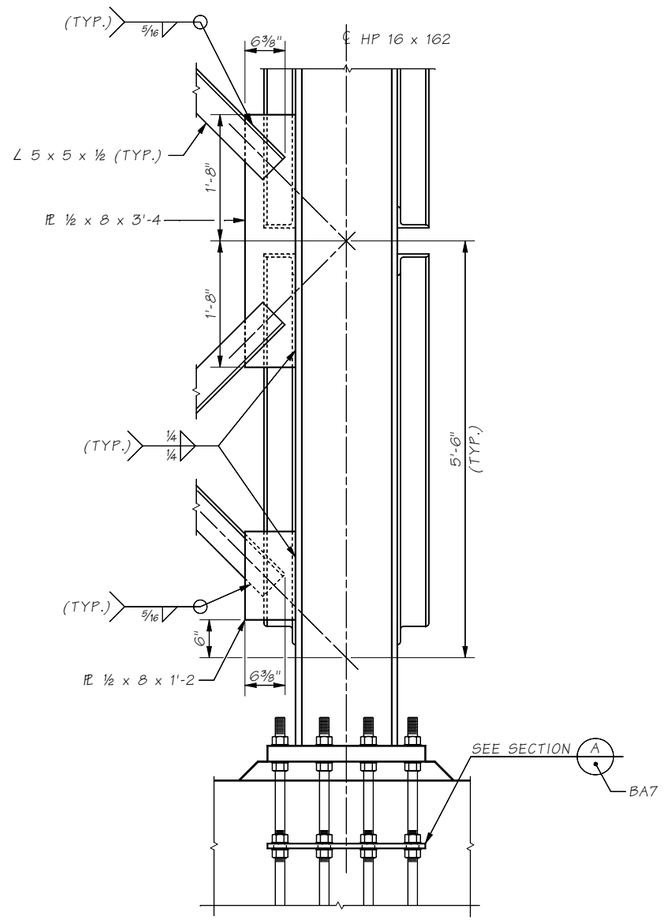
PIER 2 TOWER
DETAILS 3 OF 4

BRIDGE SHEET NO. BA10

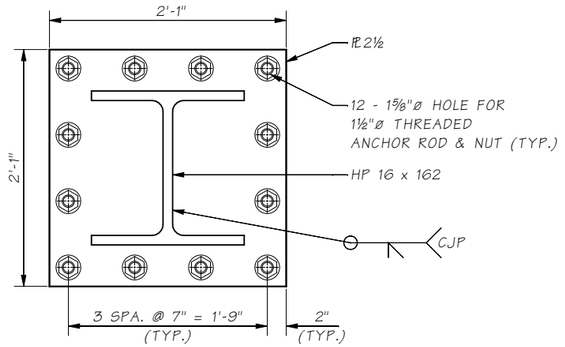
SHEET 69 OF 108 SHEETS



SECTION C
BA8



DETAIL 1
BA8



DETAIL 2

SR 90 FILE NO. ____ SHEET BA11

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\012 P2 SOUTH DET3.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT					10	WASH.			
Designed By	Reid, Z 01/22					JOB NUMBER 22Y001				
Checked By	Chavez, G 02/22									
Detailed By	Davis, E 01/22					CONTRACT NO.				
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

Mon Mar 28 07:54:07 2022

P.E. STAMP BOX
ZACHARY D. REID
STATE OF WASHINGTON
21018155
REGISTERED
PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX
NICHOLAS T. RODDA
STATE OF WASHINGTON
17299
PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

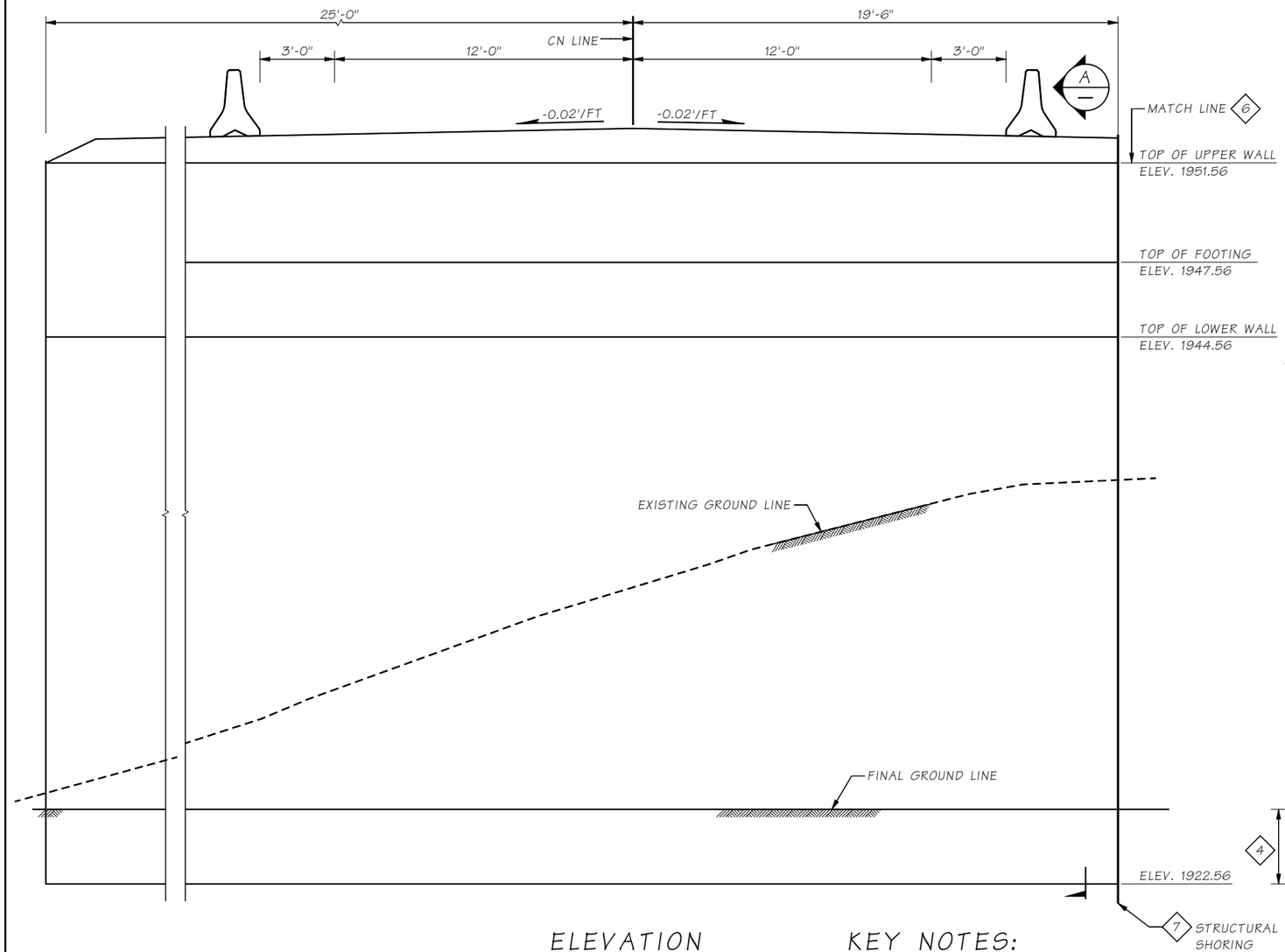
Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES DECK REHABILITATION
TEMPORARY STRUCTURE

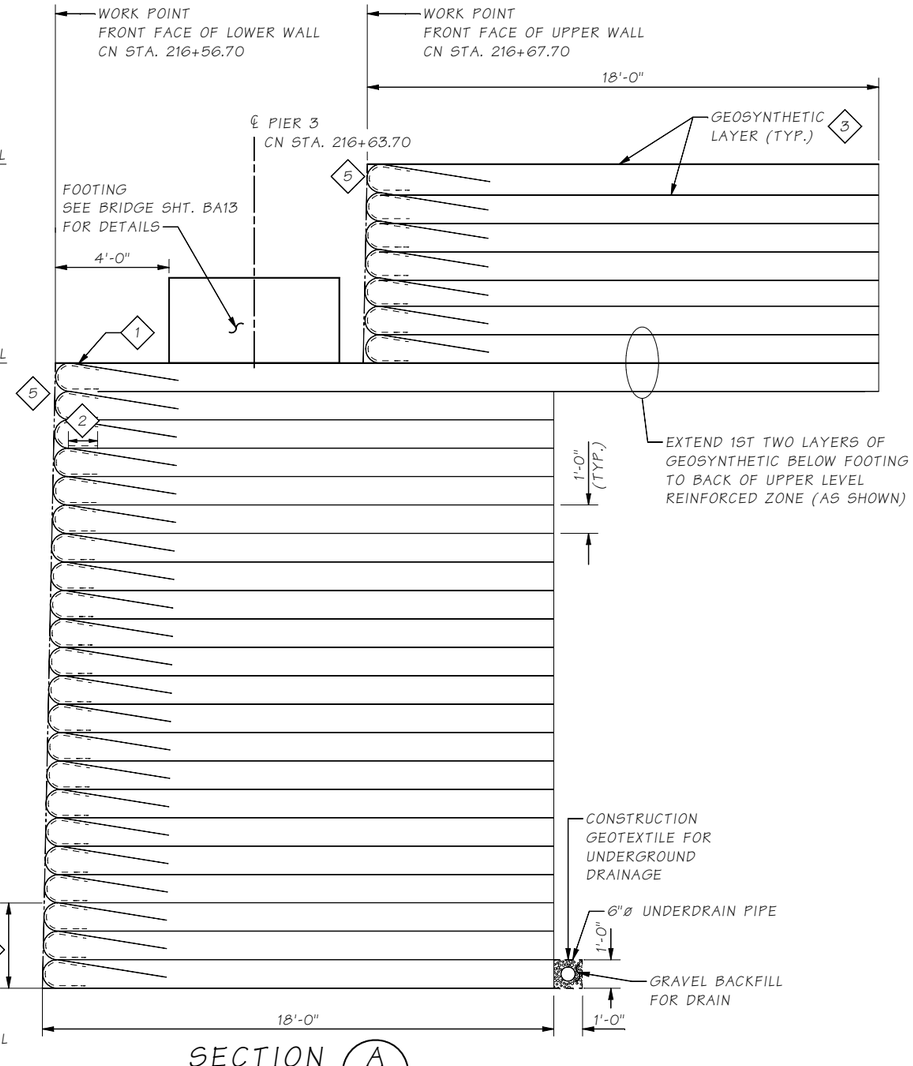
PIER 2 TOWER
DETAILS 4 OF 4

BRIDGE SHEET NO. BA11

SHEET 70 OF 108 SHEETS



ELEVATION



SECTION A

KEY NOTES:

1. GEOTEXTILE FOR UNDERGROUND DRAINAGE CLASS A, LOW SURVIVABILITY (ONLY NEEDED IF A GEOGRID IS USED FOR GEOSYNTHETIC REINFORCEMENT)
2. 1'-0" MIN. GEOTEXTILE OVERLAP, TOP AND BOTTOM.
3. THE LONG-TERM GEOSYNTHETIC REINFORCEMENT STRENGTH REQUIRED IS 2225 LBS/FT MINIMUM.
4. 3'-0" MIN. EMBEDMENT
5. 48:1 SLOPE
6. FOR ABOVE MATCH LINE DETAILS, SEE SHEET RS1
7. IN ADDITION TO THE REQUIREMENTS OF SECTION 2-09.3(3)D, STRUCTURAL SHORING SHALL BE DESIGNED FOR ANY SURCHARGE LOADING RESULTING FROM ACROW BRIDGE ERECTION OPERATIONS OR FINAL DEAD PLUS LIVE LOADING, WHICHEVER IS GREATER.

SR 90 FILE NO. SHEET BA12

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\013 PIER 3 WALL.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT					10	WASH.			
Designed By	Chavez, G 11/21					JOB NUMBER 22Y001				
Checked By	Rodda, NT 02/22					CONTRACT NO.				
Detailed By	Davis, E 11/21									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

P.E. STAMP BOX — NICHOLAS T. RODDA — STATE OF WASHINGTON — 47296 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE SHEET CT1 DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX — BIJAN KHALEGHI — STATE OF WASHINGTON — 27695 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE SHEET CT1 DATE:

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCTURE

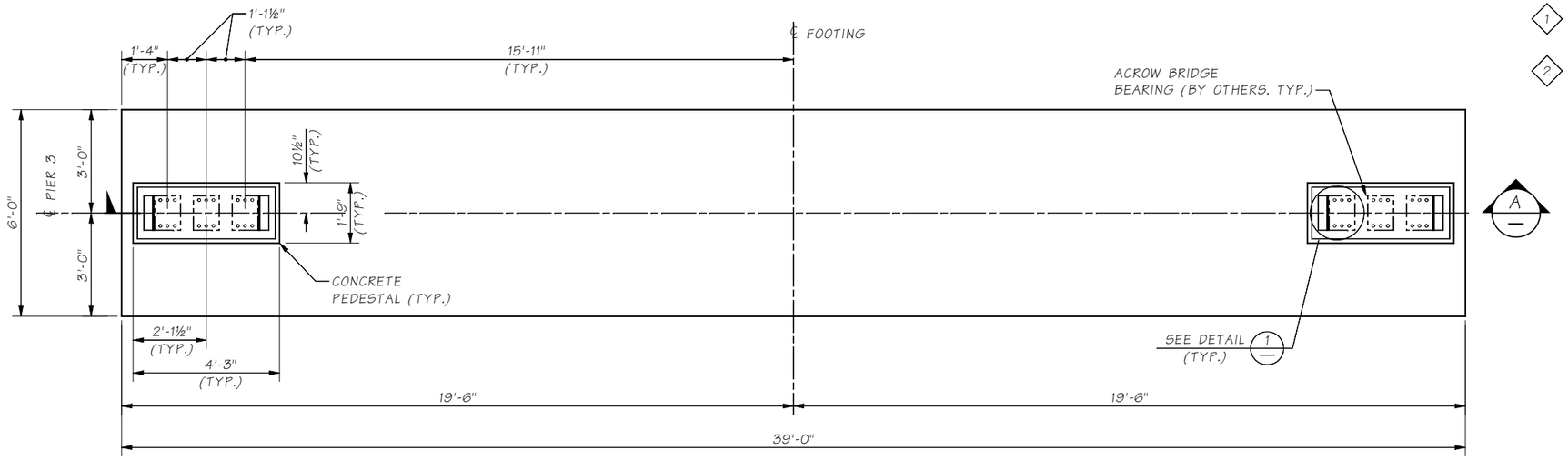
PIER 3
GEOSYNTHETIC WALL DETAILS

BRIDGE SHEET NO. BA12
SHEET 71 OF 108 SHEETS

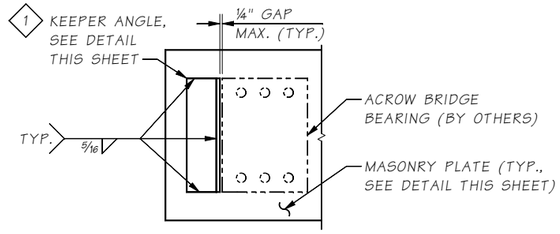
Mon Mar 28 07:54:15 2022

1. OTHER ANGLE SIZES MAY BE SUBSTITUTED AS NECESSARY.

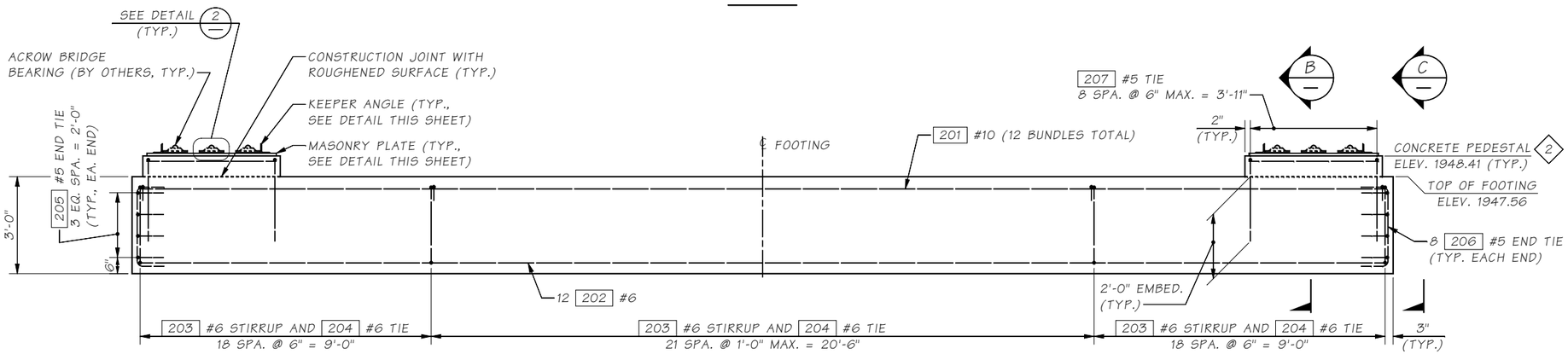
2. CONCRETE PEDESTAL ELEVATIONS ARE BASED ON PRELIMINARY INFORMATION. ADJUSTMENTS SHALL BE MADE TO PEDESTAL ELEVATIONS BASED ON APPROVED ACROW SHOP DRAWINGS.

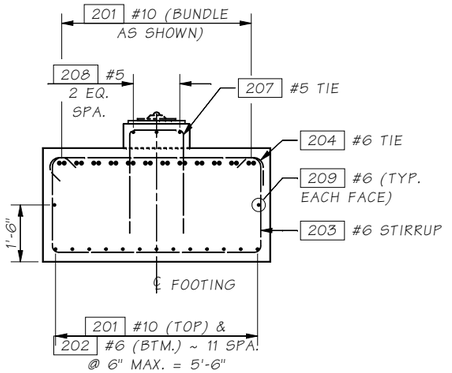


PLAN

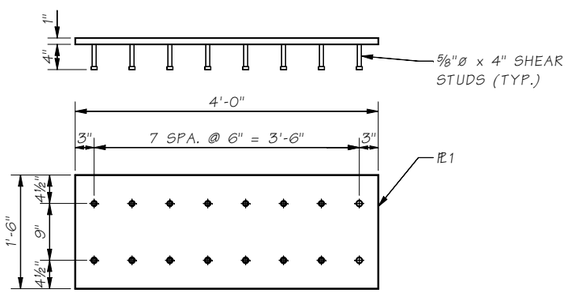


DETAIL 1

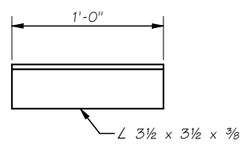




SECTION A

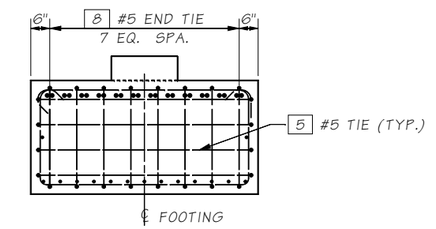


MASONRY PLATE

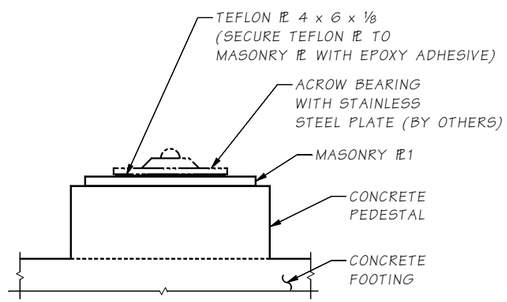


KEEPER ANGLE

SECTION B



VIEW C



DETAIL 2

SR 90 FILE NO. SHEET BA13

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\012 PIER 3 FTG.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT					10	WASH.			
Designed By	Chavez, G 11/21					JOB NUMBER 22Y001				
Checked By	Rodda, NT 02/22					CONTRACT NO.				
Detailed By	Davis, E 11/21									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

Mon Mar 28 07:54:17 2022

P.E. STAMP BOX
NICHOLAS T. BODA
STATE OF WASHINGTON
47296
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX
BRIAN KHALEGHI
STATE OF WASHINGTON
27090
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

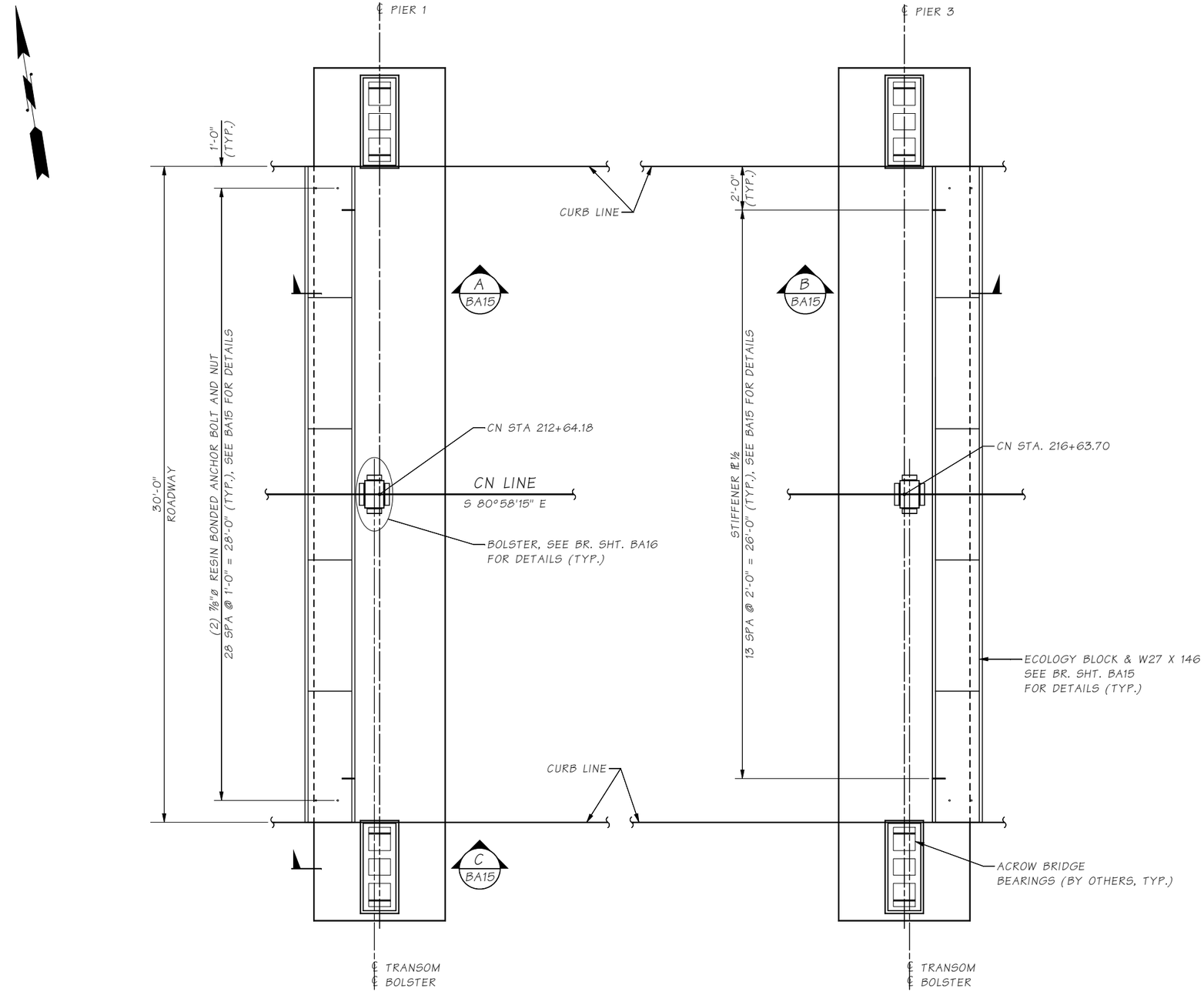
Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCTURE

PIER 3
FOOTING DETAILS

BRIDGE SHEET NO. BA13

SHEET 72 OF 108 SHEETS



PLAN

SR 90 FILE NO. ____ SHEET BA14

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\014 BOLSTER DET.wnd			REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT				10	WASH.			
Designed By	Chavez, G 11/21				JOB NUMBER 22Y001				
Checked By	Rodda, NT 02/22				CONTRACT NO.				
Detailed By	Davis, E 11/21								
Bridge Projects Engr.									
Prelim. Plan By									
Architect/Specialist		DATE	REVISION	BY	APP'D				

Mon Mar 28 07:54:19 2022

P.E. STAMP BOX — NICHOLAS T. RODDA — STATE OF WASHINGTON — 47298 — PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX — BIJAN KHALEGHI — STATE OF WASHINGTON — 37690 — PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

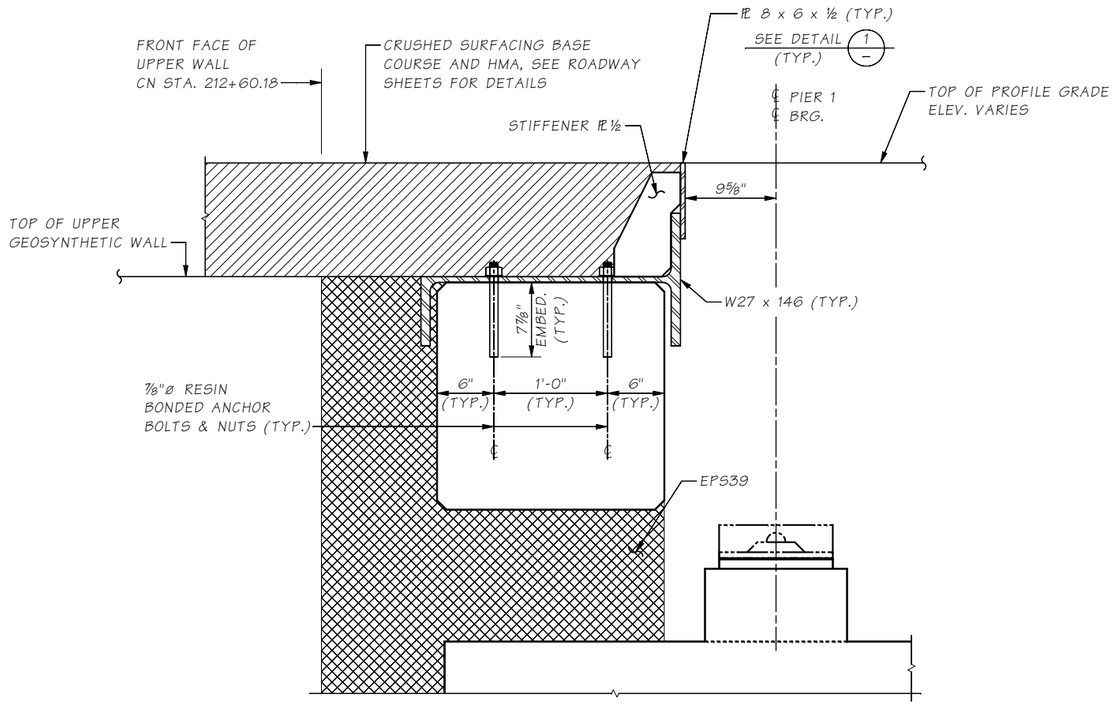
Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCTURE

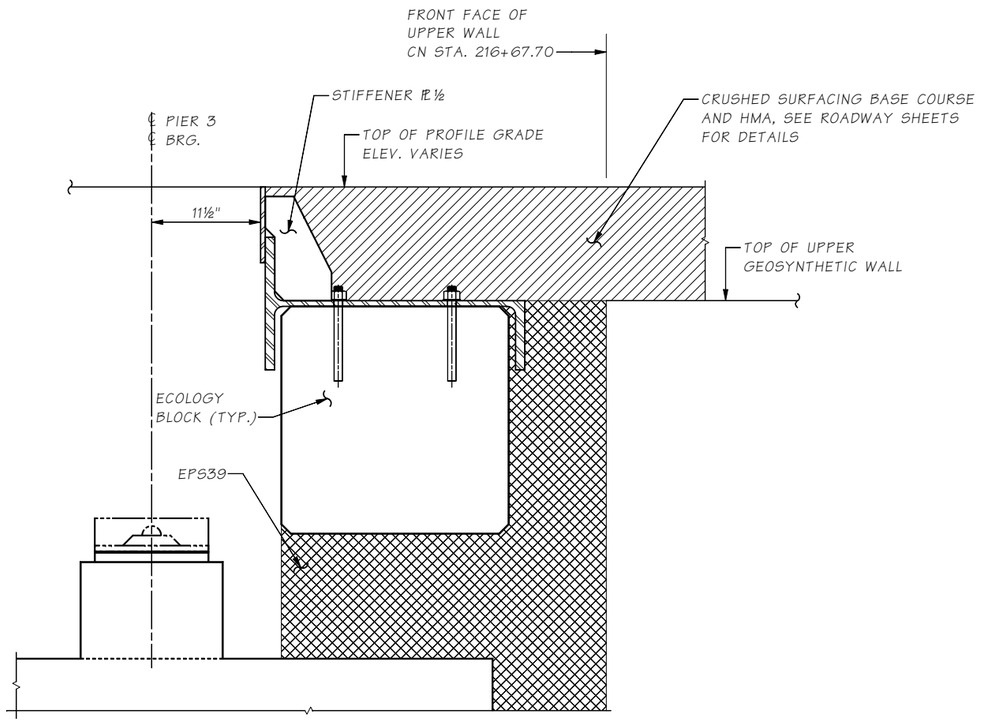
MISCELLANEOUS DETAILS 1 OF 4

BRIDGE SHEET NO. BA14

SHEET 73 OF 108 SHEETS

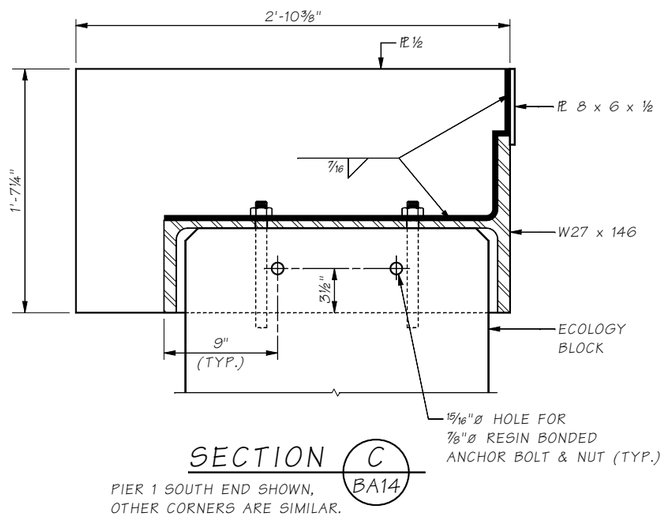


SECTION A BA14



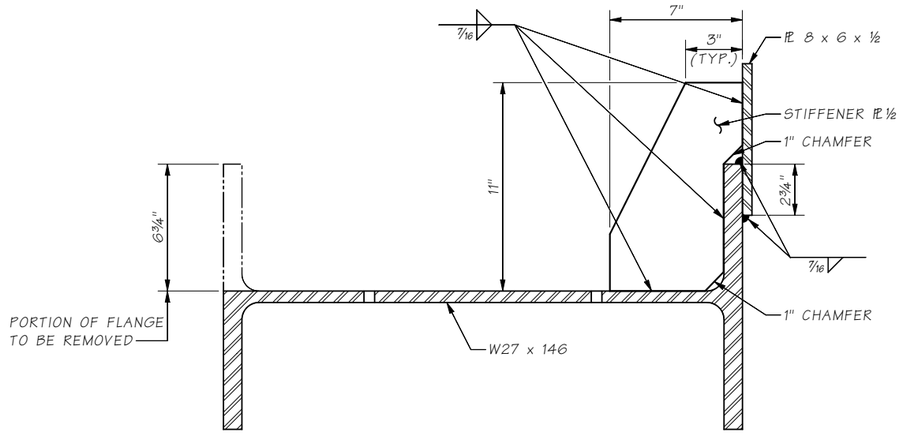
SECTION B BA14

ACROW BRIDGE NOT SHOWN FOR CLARITY



SECTION C BA14

PIER 1 SOUTH END SHOWN, OTHER CORNERS ARE SIMILAR.



DETAIL 1 —

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\015 ABUT DET.wnd			REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT				10	WASH.			
Designed By	Chavez, G 11/21				JOB NUMBER 22YO01				
Checked By	Rodda, NT 02/22				CONTRACT NO.				
Detailed By	Davis, E 11/21								
Bridge Projects Engr.									
Prelim. Plan By									
Architect/Specialist		DATE	REVISION	BY	APP'D				

P.E. STAMP BOX — NICHOLAS T. RODDA — STATE OF WASHINGTON — 47298 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX — BIJAN KHALEGHI — STATE OF WASHINGTON — 37690 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCTURE

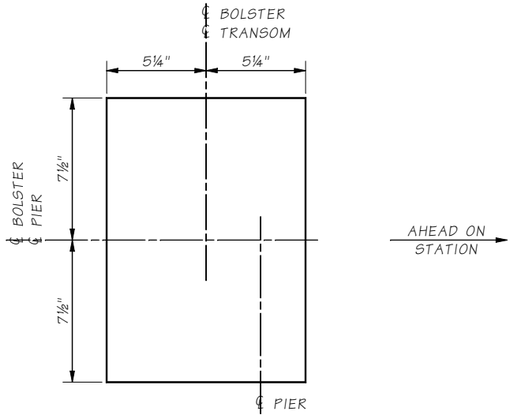
MISCELLANEOUS DETAILS 2 OF 4

BRIDGE SHEET NO. BA15

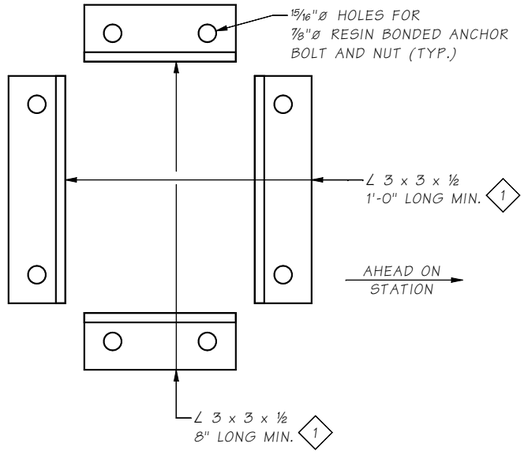
SHEET 74 OF 108 SHEETS

SR 90 FILE NO. ____ SHEET BA15

Mon Mar 28 07:54:20 2022

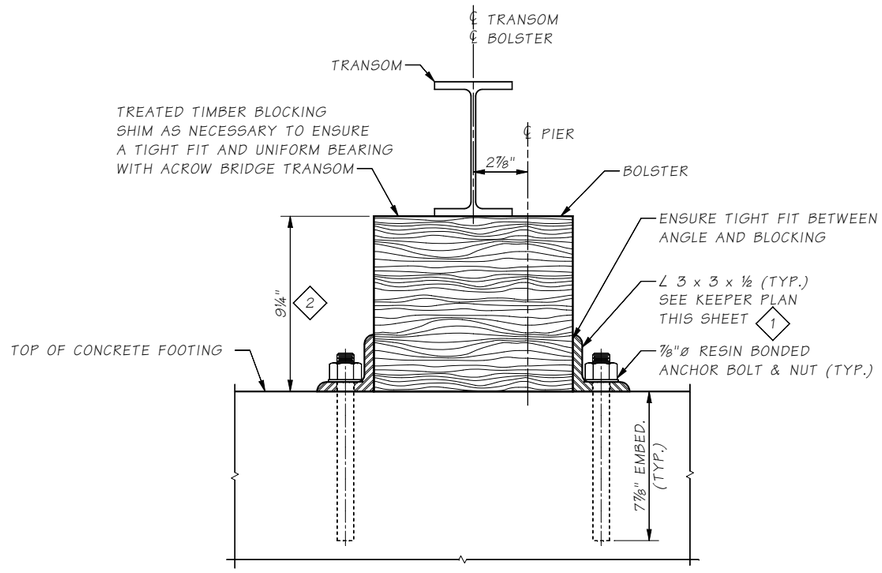


BOLSTER PLAN



KEEPER PLAN

1. OTHER ANGLE SIZES MAY BE SUBSTITUTED AS NECESSARY.
2. CONTRACTOR TO FIELD VERIFY DIMENSIONS



TYPICAL SECTION AT BOLSTER

PIER 1 SHOWN, PIER 3 SIMILAR EXCEPT OPPOSITE HAND

SR 90 FILE NO. ____ SHEET BA16

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\BOLSTER DETAILS 2.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT					10	WASH.			
Designed By	Chavez, G 12/22					JOB NUMBER 22Y001				
Checked By	Rodda, NT 02/22					CONTRACT NO.				
Detailed By	Davis, E 12/22									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

P.E. STAMP BOX — NICHOLAS T. ROSA — STATE OF WASHINGTON — 47208 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX — BIJAN KHALEGHI — STATE OF WASHINGTON — 27106 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE

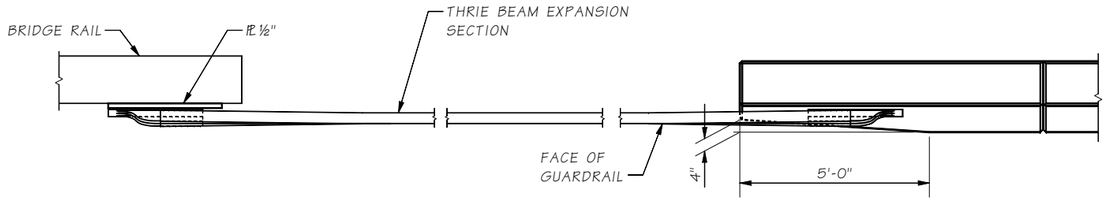
Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCTURE

MISCELLANEOUS DETAILS 3 OF 4

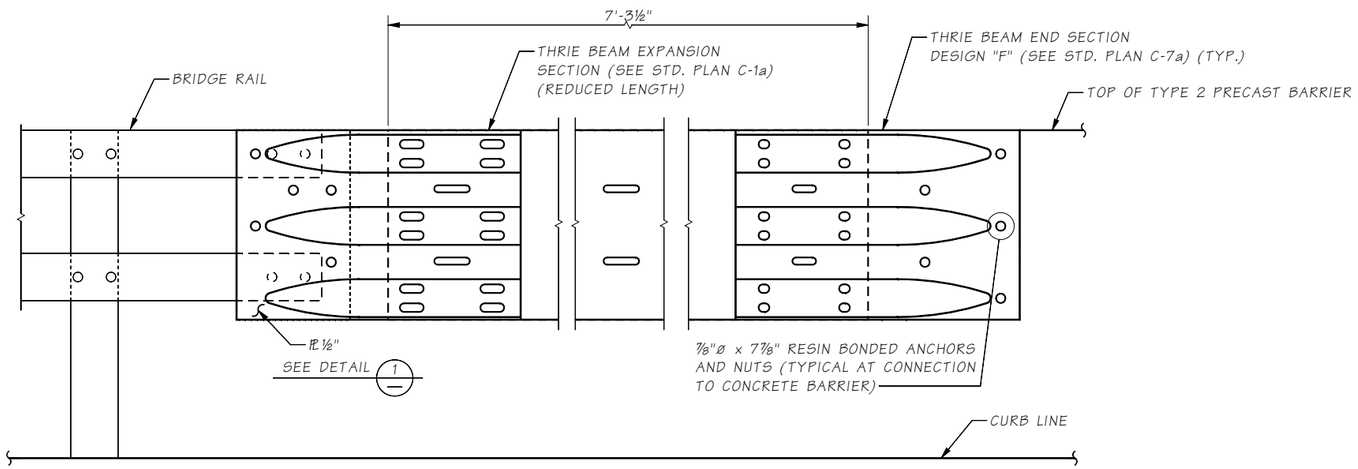
BRIDGE SHEET NO. BA16
SHEET 75 OF 108 SHEETS

Mon Mar 28 07:54:23 2022

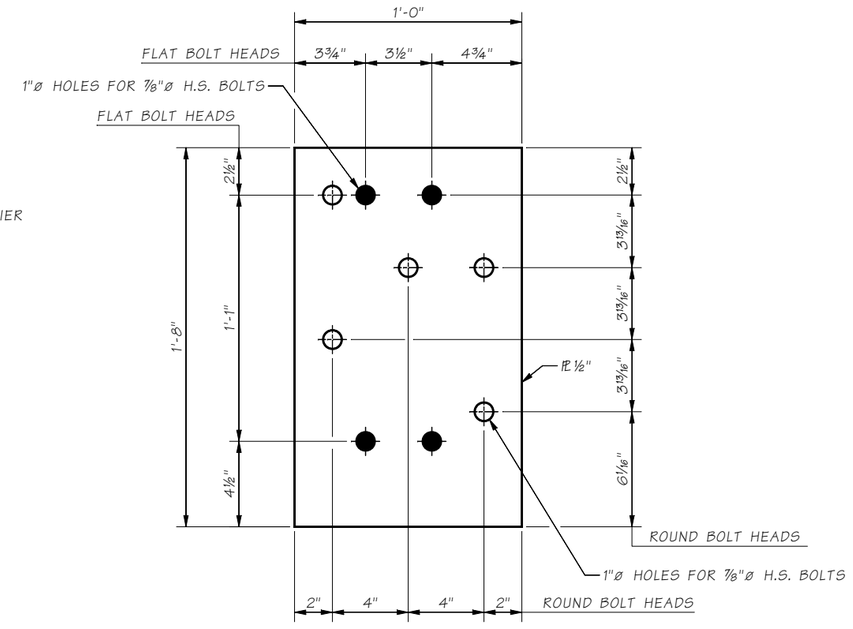


PLAN

NORTHEAST CORNER SHOWN
OTHER CORNERS SIMILAR



ELEVATION



DETAIL 1

4 REQUIRED

LEGEND

- FLAT BOLT HEADS (ATTACHING TO BRIDGE RAIL)
- ROUND BOLT HEADS (ATTACHING THRIE BEAM END SECTION TO ℄ ½")

SR 90 FILE NO. SHEET BA17

Bridge Design Engr.	Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\011 BR CON DET1.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Rodda, NT					10	WASH.			
Designed By	Chavez, G 11/21					JOB NUMBER 22Y001				
Checked By	Rodda, NT 02/22					CONTRACT NO.				
Detailed By	Davis, E 11/21									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

P.E. STAMP BOX — NICHOLAS T. RODDA — STATE OF WASHINGTON — 47298 — PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX — BIJAN KHALEGHI — STATE OF WASHINGTON — 37695 — PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCTURE

MISCELLANEOUS DETAILS 4 OF 4

BRIDGE SHEET NO. BA17

SHEET 76 OF 108 SHEETS

Mon Mar 28 07:54:25 2022

S = Bar is included in substructure quantities.
L = Lump sum quantity.
T = Transverse or S = Seismic
E = Bar is to be epoxy coated.
V = Bar dimensions vary between dimensions shown on this line and the following line.

MARK NO.	LOCATION	SIZE	NO REQ'D	BEND TYPE	TIE OR STIR.	LUMP SUM	SUBSTR.	EPOXY COAT	V'ARIES	NO. EACH	DIMENSIONS (Out to Out) U Ft.	U In.	W Ft.	W In.	X Ft.	X In.	Y Ft.	Y In.	Z Ft.	Z In.	θ_1 Deg.	θ_2 Deg.	LENGTH Ft.	LENGTH In.	WEIGHT Lbs.
	PIER 1 FOOTING																								
1	TOP LONGITUDINAL	10	24	50			S				38	6.0											38	6.0	4909
2	BOTTOM LONGITUDINAL	6	12	50			S				38	6.0											38	6.0	694
3	STIRRUP	6	58	72	T		S				5	6.0	2	6.0	2	6.0							11	5.6	1344
4	TIES	6	58	58	T		S				5	6.0											6	11.8	818
5	HORIZONTAL END TIES	5	8	56			S				5	6.0											6	10.9	58
6	VERTICAL END TIES	5	16	56			S				2	6.0											3	10.9	65
7	PEDESTAL TIE	5	18	74	T		S				1	5.0	2	6.0	2	6.0							6	2.4	116
8	PEDESTAL LONGITUDINAL	5	6	50			S				3	11.0											3	11.0	25
9	MIDDLE LONGITUDINAL	6	2	50			S				38	6.0											38	6.0	116
	PIER 2 FOOTING																								
100	TOP LONGITUDINAL	11	40	50			S				47	6.0											47	6.0	10095
101	BOTTOM LONGITUDINAL	6	40	50			S				47	6.0											47	6.0	2854
102	TIE BAR	7	640	57	T		S				3	3.0											3	12.0	5229
103	TOP SHORT SPAN LONGITUDINAL	6	58	50			S				19	6.0											19	6.0	1699
104	BTM SHORT SPAN LONGITUDINAL	11	58	50			S				19	6.0											19	6.0	6009
	PIER 3 FOOTING																								
201	TOP LONGITUDINAL	10	24	50			S				38	6.0											38	6.0	4909
202	BOTTOM LONGITUDINAL	6	12	50			S				38	6.0											38	6.0	694
203	STIRRUP	6	58	72	T		S				5	6.0	2	6.0	2	6.0							11	5.6	1344
204	TIES	6	58	58	T		S				5	6.0											6	11.8	818
205	HORIZONTAL END TIES	5	8	56			S				5	6.0											6	10.9	58
206	VERTICAL END TIES	5	16	56			S				2	6.0											3	10.9	65
207	PEDESTAL TIE	5	18	74	T		S				1	5.0	2	8.0	2	8.0							6	6.4	123
208	PEDESTAL LONGITUDINAL	5	6	50			S				3	11.0											3	11.0	25
209	MIDDLE LONGITUDINAL	6	2	50			S				38	6.0											38	6.0	116

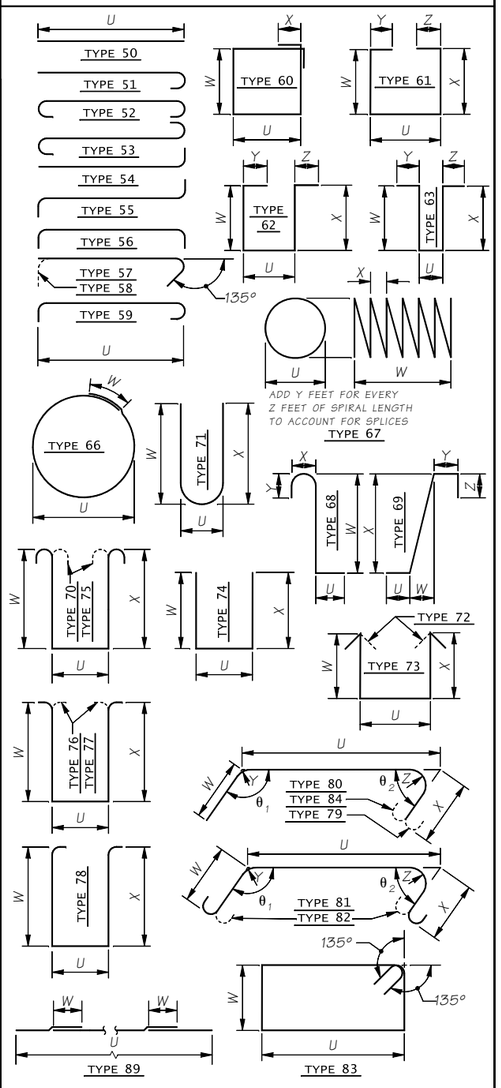
S = Bar is included in substructure quantities.
L = Lump sum quantity.
T = Transverse or S = Seismic
E = Bar is to be epoxy coated.
V = Bar dimensions vary between dimensions shown on this line and the following line.

MARK NO.	LOCATION	SIZE	NO REQ'D	BEND TYPE	TIE OR STIR.	LUMP SUM	SUBSTR.	EPOXY COAT	V'ARIES	NO. EACH	DIMENSIONS (Out to Out) U Ft.	U In.	W Ft.	W In.	X Ft.	X In.	Y Ft.	Y In.	Z Ft.	Z In.	θ_1 Deg.	θ_2 Deg.	LENGTH Ft.	LENGTH In.	WEIGHT Lbs.

STEEL REINFORCING BAR QUANTITIES NOT INCLUDED IN THIS BAR LIST

TRAFFIC BARRIER
BRIDGE GRATE INLETS
RETAINING WALL

BENDING DIAGRAMS



NOTES:

1. ALL REINFORCING BARS ON THIS SHEET SHALL BE ASTM A 706 UNLESS SHOWN OTHERWISE.
2. REINFORCING FOR TRAFFIC BARRIERS NOT SHOWN IN THE BAR LIST, SEE TRAFFIC BARRIER SHEET.
3. BEND FOR TRANSVERSE BARS DUE TO ROADWAY CROWN CONDITIONS HAS NOT BEEN SHOWN. THESE BARS SHALL BE BENT AS REQUIRED TO CONFORM TO THE CONFIGURATION OF THE STRUCTURE.
4. NUMBER AND LENGTH OF BARS TO BE DETERMINED BY THE CONTRACTOR FROM PLANS.

SR 90 FILE NO. SHEET BA18

Bridge Design Engr. Khaleghi, B	M:\W-Team\XL5987 ACROW BRIDGE\window files\017 BARLIST.wnd								
Supervisor Rodda, NT					REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Designed By					10	WASH.			
Checked By					JOB NUMBER 22Y001				
Detailed By									
Bridge Projects Engr.					CONTRACT NO.				
Prelim. Plan By									
Architect/Specialist	DATE	REVISION	BY	APP'D					

P.E. STAMP BOX — SEE SHEET CT1 — DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX — SEE SHEET CT1 — DATE:

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES
DECK REHABILITATION
TEMPORARY STRUCTURE

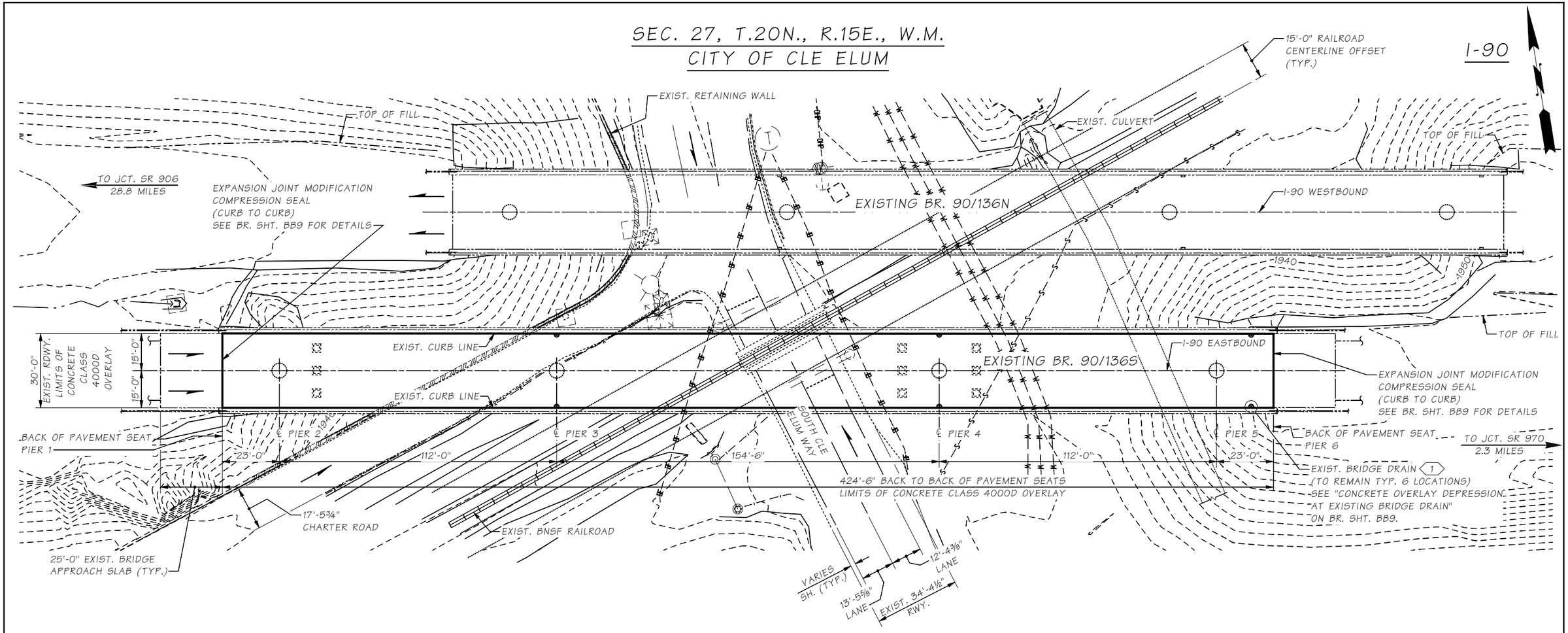
BARLIST

BRIDGE SHEET NO. BA18

SHEET 77 OF 108 SHEETS

Mon Mar 28 07:54:30 2022

SEC. 27, T.20N., R.15E., W.M.
CITY OF CLE ELUM



PLAN

LEGEND

- EXIST. DITCH LINE (NO DIRECTION)
- EXIST. WATER LINE
- EXIST. OVERHEAD POWER
- EXIST. GUARD RAIL
- EXIST. FENCE
- EXIST. RETAINING WALL
- EXIST. RAILROAD
- EXIST. EDGE OF PAVEMENT
- EXIST. LINE STOP
- EXISTING BURIED FIBER OPTIC
- EXISTING SANITARY SEWER LINE
- EXISTING GATE
- B / BB15 — IDENTIFIES SECTION OR VIEW; TAKEN OR SHOWN ON BRIDGE SHEET BB15
- 1 / — IDENTIFIES DETAIL; TAKEN OR SHOWN ON THE SAME SHEET
- 99 — FLAGNOTE: IDENTIFIES NOTE REFERENCE ON THE SAME SHEET
- EXISTING DOWN GUY ANCHOR
- EXISTING LIGHT STANDARD SINGLE METAL
- EXISTING TRUSS CANTILEVER
- ACCESS HATCH (TYP.) SEE BR. SHT. BB5
- EXISTING BUILDING NOT CLOSED
- (P) EXISTING UTILITY POLE
- EXISTING POWER METER BOX
- EXISTING J-BOX UNKNOWN
- EXISTING CONTROLLER CABINET
- EXISTING CATCH BASIN
- EXISTING TELEPHONE MANHOLE

NOTE:

1. THE CONTRACTOR SHALL TEMPORARILY BLOCK ALL BRIDGE DRAINS DURING THE REHAB CONSTRUCTION WORK ON THE BRIDGE.

GENERAL NOTES:

1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2022, AND AMENDMENTS.
2. THE DIMENSIONS SHOWN IN THE PLANS ARE BASED ON AS-BUILT PLANS. ALL RELEVANT DETAILS AND DIMENSIONS SHALL BE FIELD MEASURED AND VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS AND PROCEEDING WITH CONSTRUCTION.
3. THE CONTRACTOR SHALL SCARIFY AND OVERLAY THE BRIDGE DECK FOLLOWING THE SEQUENCE SHOWN ON BR. SHT. BB3.
4. SEE "SURFACE SCARIFICATION LIMITATIONS" ON BR. SHT. BB4.

CONCRETE CLASS 4000D OVERLAY

SR 90 FILE NO. SHEET BB1

Bridge Design Engr.	Khaleghi, B	M:\PAVING\BR90-136S_I-90 OVER CLE ELUM RD, RR_BRIDGE DECK REHAB_SCR\window files\LAYOUT.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Aldrich, BS					10	WASH.			
Designed By	Hsieh, JC 12/19					JOB NUMBER 22Y001				
Checked By	Lee, CS 10/21					CONTRACT NO.				
Detailed By	Bontemps, W 12/19									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

P.E. STAMP BOX — SEE SHEET CT1 DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX — BILAL KHALEGHI, STATE OF WASHINGTON, 37695, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER — SEE SHEET CT1 DATE:

Washington State Department of Transportation

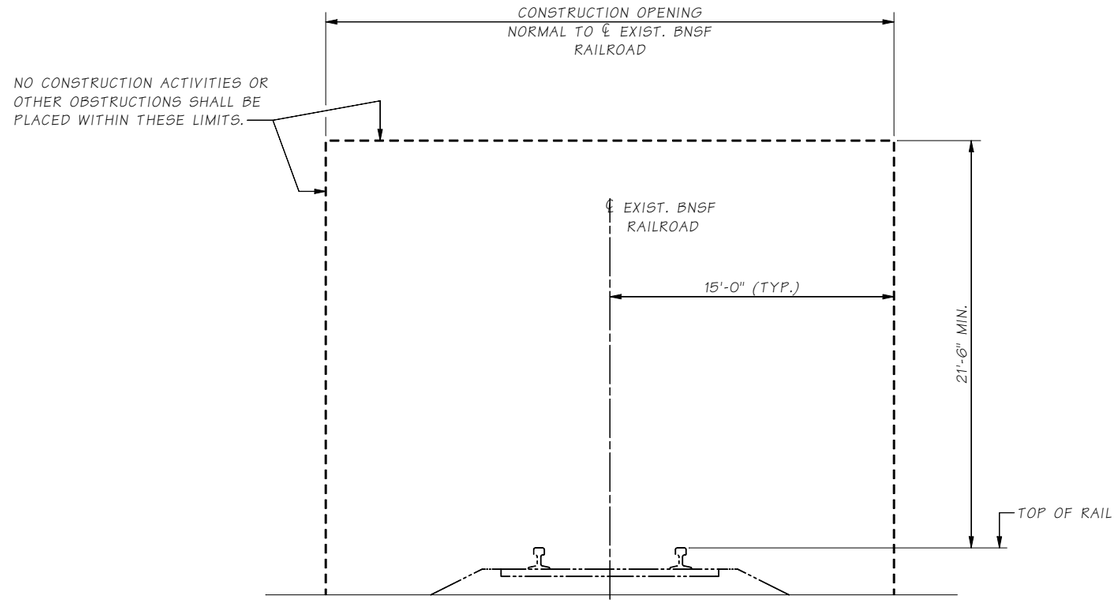
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136S

LAYOUT

BRIDGE SHEET NO. BB1

SHEET 78 OF 108 SHEETS

Mon Mar 21 06:09:13 2022



CONSTRUCTION OPENING

SR 90 FILE NO. ____ SHEET BB2

Bridge Design Engr.	Khaleghi, B	M:\PAVING\BR90-136S_I-90 OVER CLE ELUM RD, RR_BRIDGE DECK REHAB_SCR\window files\TYP SECT.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Aldrich, BS					10	WASH.			
Designed By	Hsieh, JC 12/19					JOB NUMBER 22Y001				
Checked By	Lee, CS 10/21					CONTRACT NO.				
Detailed By	Bontemps, W 12/19									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

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BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX: BIJAN KHALEGHI, STATE OF WASHINGTON, 37886, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

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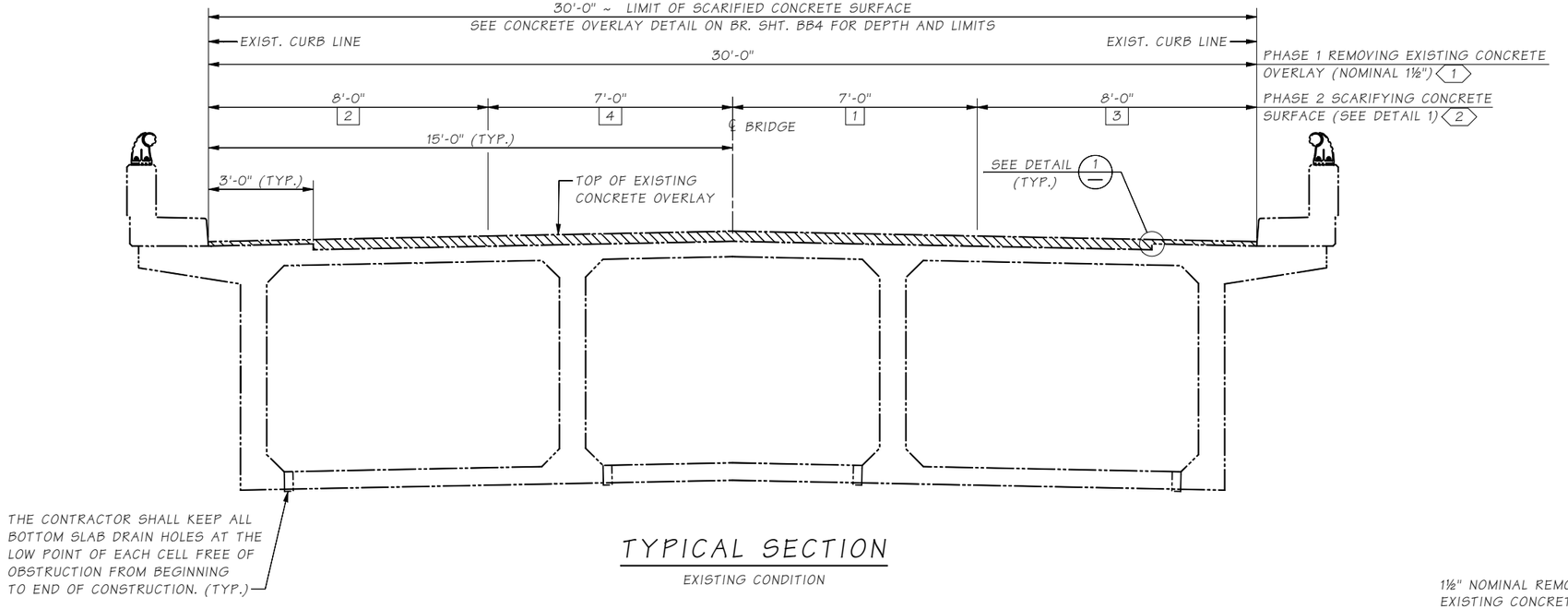
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136S

CONSTRUCTION OPENING

BRIDGE SHEET NO. BB2

SHEET 79 OF 108 SHEETS

Mon Mar 21 08:09:35 2022



THE CONTRACTOR SHALL KEEP ALL BOTTOM SLAB DRAIN HOLES AT THE LOW POINT OF EACH CELL FREE OF OBSTRUCTION FROM BEGINNING TO END OF CONSTRUCTION. (TYP.)

TYPICAL SECTION

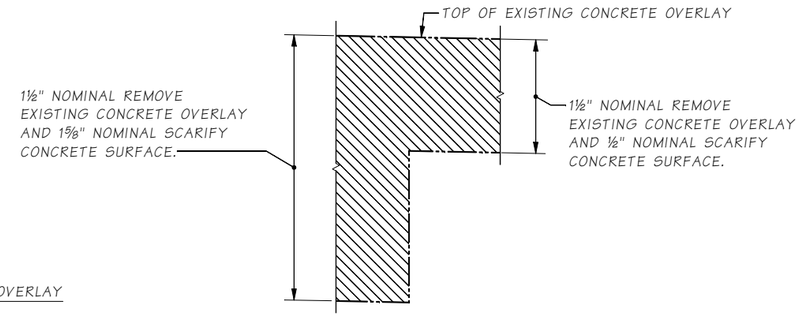
EXISTING CONDITION

NOTES:

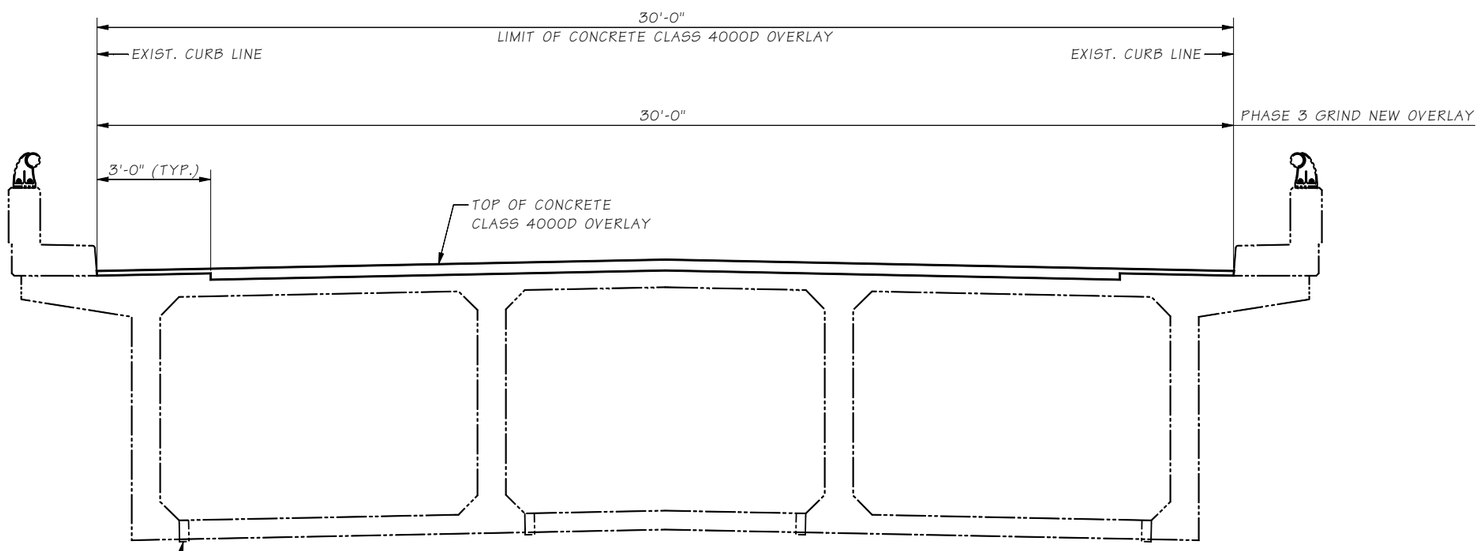
1. PHASE 1 CONSISTS OF REMOVING THE TOP NOMINAL 1½" OF EXISTING CONCRETE OVERLAY OVER THE FULL WIDTH OF THE BRIDGE DECK.
2. PHASE 2 CONSISTS OF SCARIFYING THE CONCRETE SURFACE TO THE DEPTHS SPECIFIED ON BR. SHT. BB4 AND IN THE LONGITUDINAL STRIP SEQUENCE SPECIFIED IN THE TYPICAL SECTIONS SHOWN ON THIS SHEET, FOLLOWED BY PLACING CONCRETE CLASS 4000D OVERLAY TO ¼" ABOVE FINAL GRADE PROFILE. CONCRETE SURFACE SCARIFICATION IN THE NEXT LONGITUDINAL STRIP SHALL NOT BE STARTED UNTIL THE CONCRETE OVERLAY IN THE PREVIOUS STRIP HAS CURED FOR 7 CALENDAR DAYS.

HATCHING DENOTES REMOVAL AREA

[#] DENOTES LONGITUDINAL STRIP SEQUENCE



DETAIL 1



THE CONTRACTOR SHALL KEEP ALL BOTTOM SLAB DRAIN HOLES AT THE LOW POINT OF EACH CELL FREE OF OBSTRUCTION FROM BEGINNING TO END OF CONSTRUCTION. (TYP.)

TYPICAL SECTION

MODIFIED CONDITION

SR 90 FILE NO. SHEET BB3

Bridge Design Engr.	Khaleghi, B	M:\PAVING\BR90-136S_I-90 OVER CLE ELUM RD, RR_BRIDGE DECK REHAB_SCR\window files\SCARIFICATION OVERLAY.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Aldrich, BS					10	WASH.			
Designed By	Hsieh, JC 12/19					JOB NUMBER 22Y001				
Checked By	Lee, CS 10/21					CONTRACT NO.				
Detailed By	Bontemps, W 12/19									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

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BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
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DATE:

BRIDGE AND STRUCTURES OFFICE

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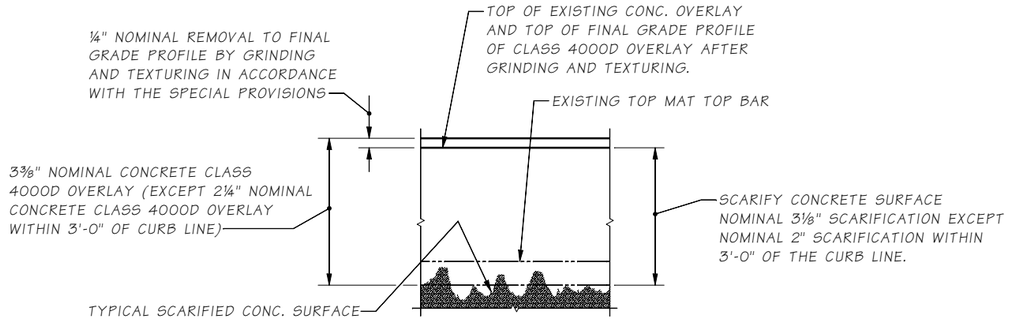
BIJAN KHALEGHI — STATE OF WASHINGTON — 27690 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

Washington State Department of Transportation

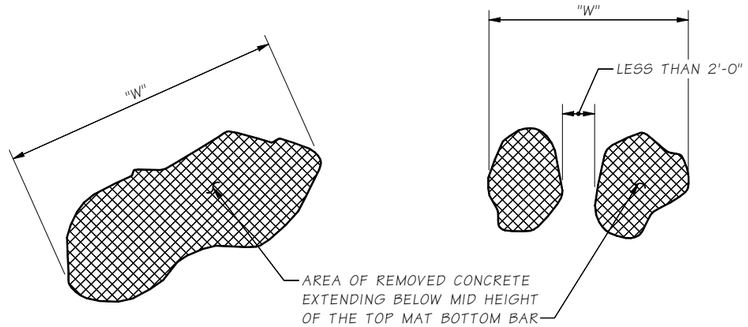
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136S

SCARIFICATION AND CONC. CLASS 4000D OVERLAY SEQUENCE ON BRIDGE DECK

BRIDGE SHEET NO. BB3
SHEET 80 OF 108 SHEETS

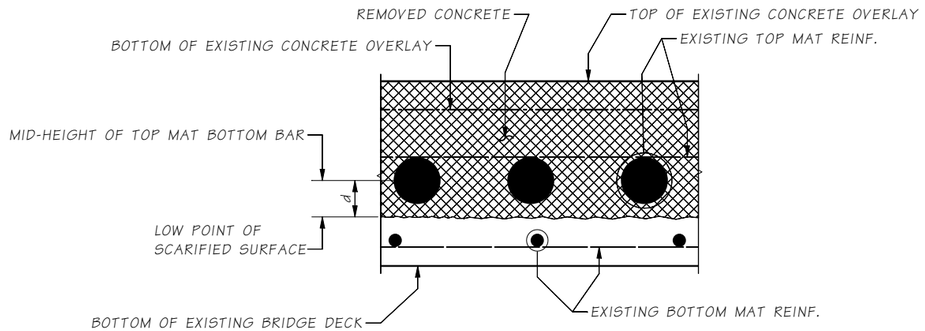


CONCRETE OVERLAY DETAIL



PLAN
SURFACE SCARIFICATION LIMITATIONS

FOR CASES WHERE TWO ADJACENT AREAS ARE SPACED LESS THAN 2'-0" APART, THE TWO AREAS SHALL BE CONSIDERED A SINGLE AREA.



SECTION
SURFACE SCARIFICATION LIMITATIONS

SURFACE SCARIFICATION LIMITATIONS NOTE:

1. IF THE LIMITS SHOWN IN TABLE 1 ARE EXCEEDED DURING THE SCARIFYING CONCRETE SURFACE PROCESS, THE CONTRACTOR SHALL DISCONTINUE SCARIFYING IN THIS AREA, UNTIL TYPE 2 DECK REPAIRS HAVE BEEN COMPLETED IN ACCORDANCE WITH STD. SPEC. SECTION 6-09.3(6)C. SCARIFYING CONCRETE SURFACE OPERATIONS MAY RESUME PRIOR TO COMPLETING THE TYPE 2 DECK REPAIRS AT A DISTANCE OF NO LESS THAN 10'-0" FROM THE EDGE OF THE AREA REQUIRING TYPE 2 DECK REPAIRS.

TABLE 1	
MAXIMUM DEPTH OF REMOVED CONC. BELOW MID-HEIGHT OF TOP MAT BOTTOM BAR	MAX. PLAN DIMENSION "W" LIMIT
$d \leq 1"$	8'-0"
$1" < d < 2"$	4'-0"
$2" \leq d$	1'-6"

SR 90 FILE NO. SHEET BB4

Bridge Design Engr.	Khaleghi, B	M:\PAVING\BR90-136S_I-90 OVER CLE ELUM RD, RR_BRIDGE DECK REHAB_SCR\window files\PAVINGDTLS.wnd								
Supervisor	Aldrich, BS					REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Designed By	Hsieh, JC 12/19					10	WASH.			
Checked By	Lee, CS 10/21					JOB NUMBER 22Y001				
Detailed By	Bontemps, W 12/19					CONTRACT NO.				
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

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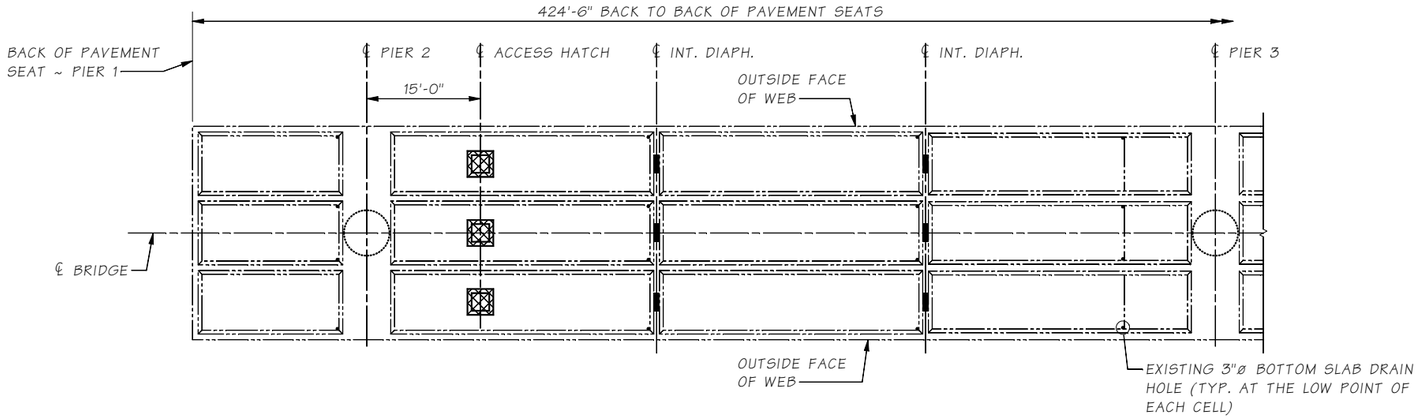
Washington State Department of Transportation

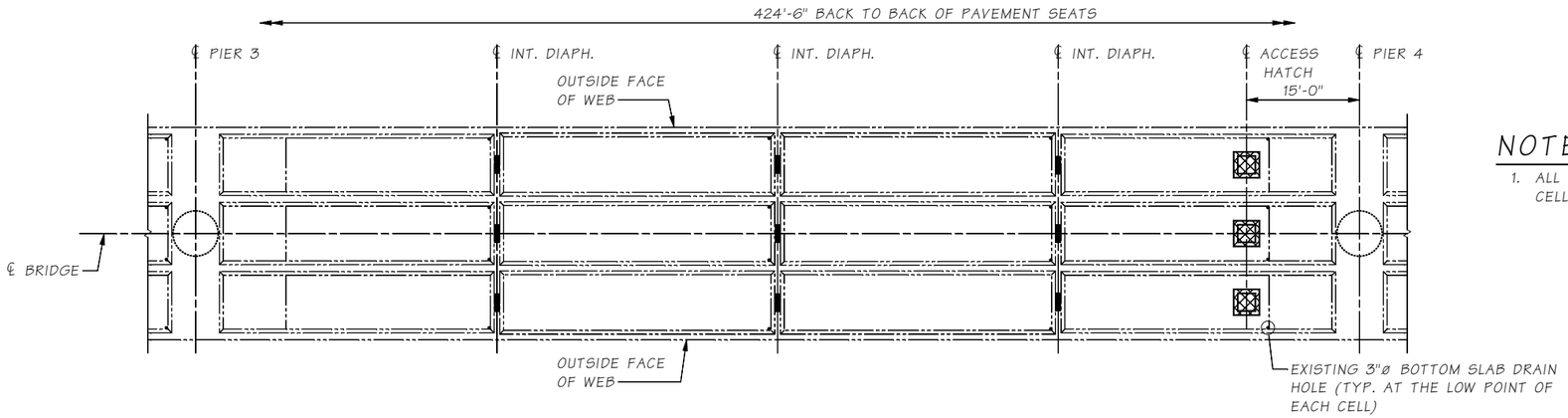
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136S

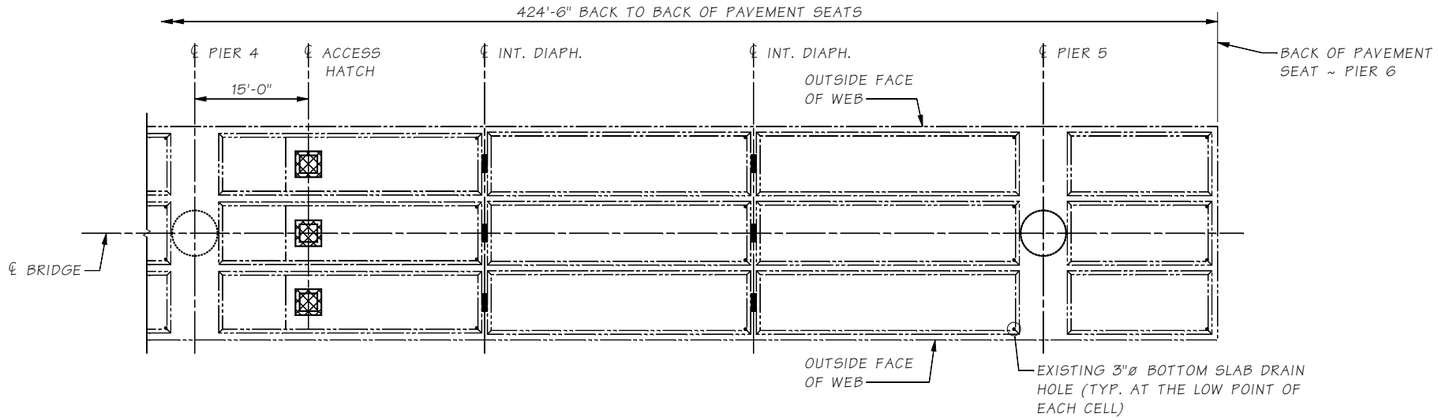
SCARIFIED CONC. SURFACE AND SUEFACE SCARIFICATION LIMITATIONS

BRIDGE SHEET NO. BB4
SHEET 81 OF 108 SHEETS

Mon Mar 21 06:09:38 2022







NOTE:

1. ALL EXISTING FALSEWORK, FORMWORKS, AND DEBRIS INSIDE ALL BOX CELLS FROM ℄ PIER 2 THROUGH ℄ PIER 5 SHALL BE REMOVED.

LEGEND

4'-2¾" x 4'-2¾" CONCRETE REMOVAL FROM THE EXISTING BOTTOM SLAB (9 LOCATIONS), CENTER BETWEEN GIRDERS FOR ACCESS DOOR. SEE BR. SHT. BB6 FOR DETAILS.

2'-6" x 2'-6" INTERMEDIATE DIAPHRAGM OPENING FOR PERMANENT ACCESS (21 LOCATIONS). SEE BR. SHT. BB8 FOR DETAILS.

BOTTOM SLAB PLAN

SR 90 FILE NO. SHEET BB5

Bridge Design Engr.	Khaleghi, B	M:\PAVING\BR90-136S_I-90 OVER CLE ELUM RD, RR_BRIDGE DECK REHAB_SCR\window files\BOTTOMFRAMINGPLAN.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Aldrich, BS					10	WASH.			
Designed By	Hsieh, JC 12/19					JOB NUMBER 22Y001				
Checked By	Lee, CS 10/21					CONTRACT NO.				
Detailed By	Bontemps, W 12/19									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

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P.E. STAMP BOX — BIJAN KHALEGHI, STATE OF WASHINGTON, 27700, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE

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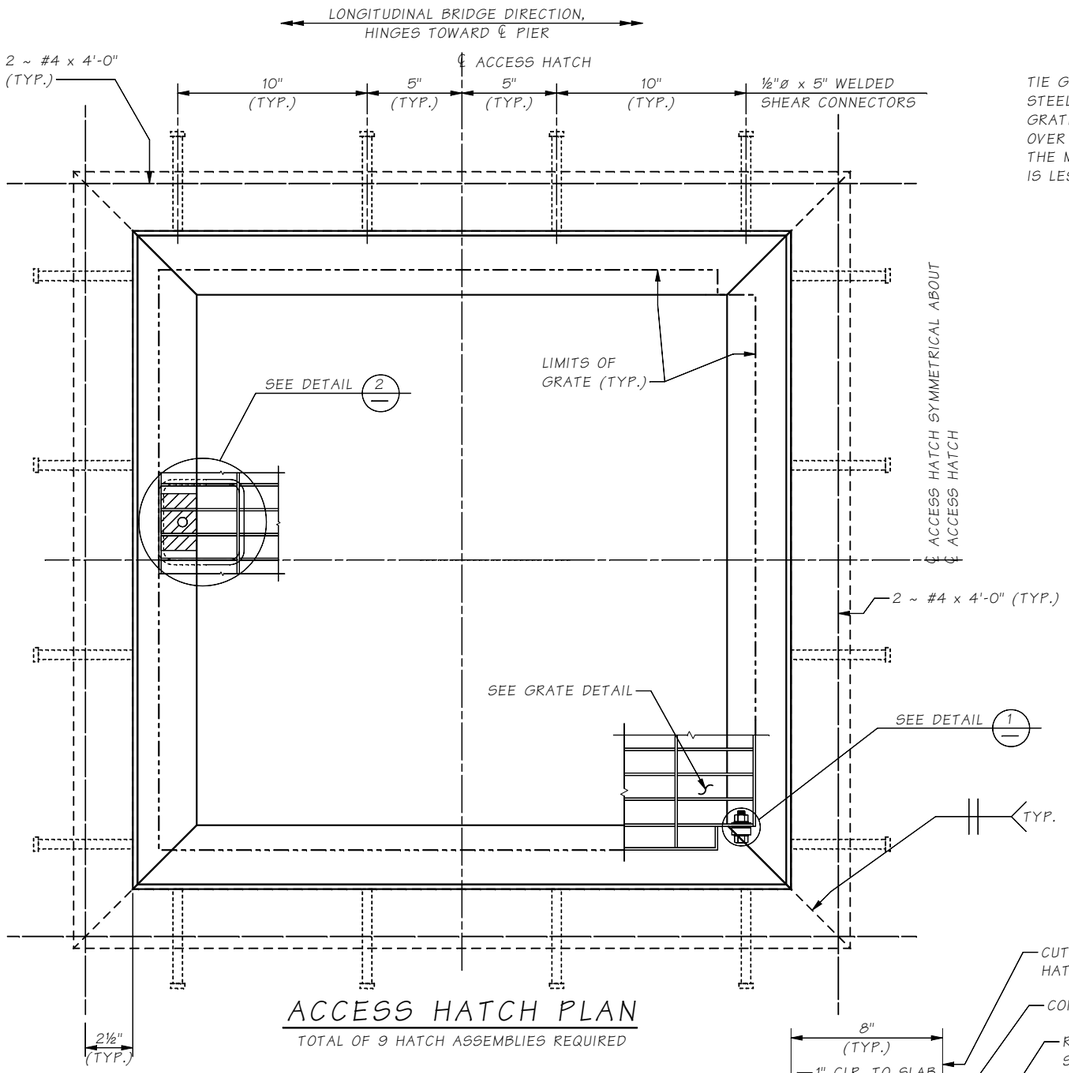
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136S

REMOVING PORTION OF EXISTING BRIDGE

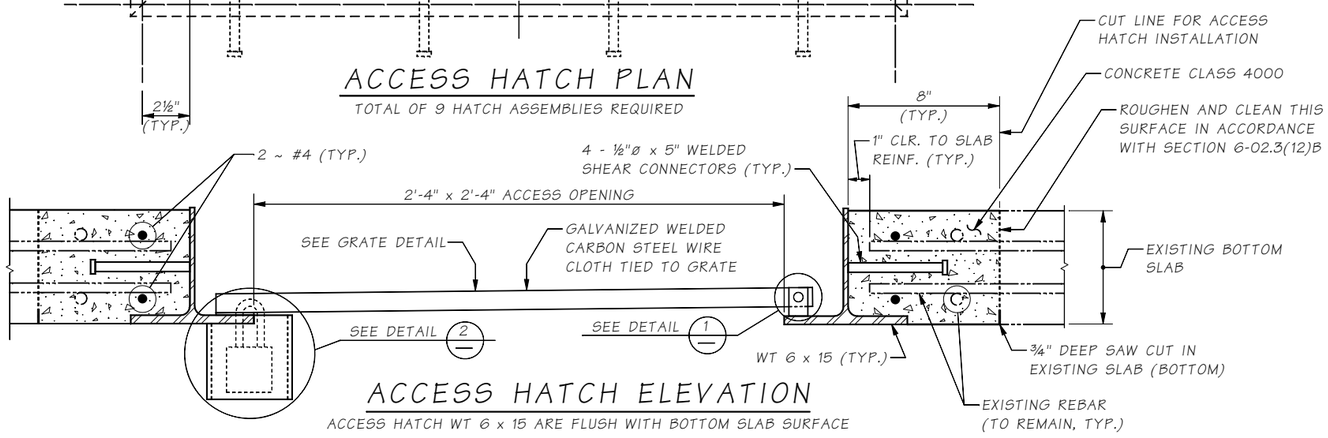
BRIDGE SHEET NO. BB5

SHEET 82 OF 108 SHEETS



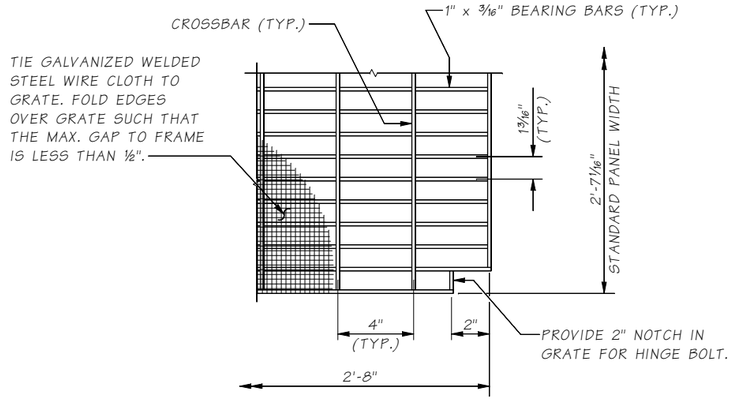
ACCESS HATCH PLAN

TOTAL OF 9 HATCH ASSEMBLIES REQUIRED

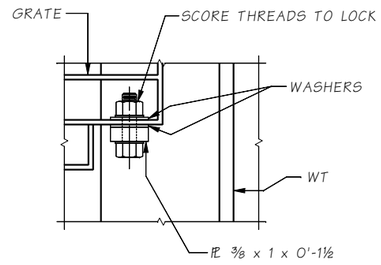


ACCESS HATCH ELEVATION

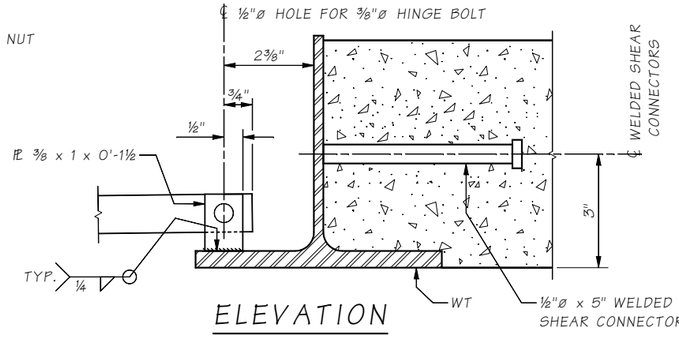
ACCESS HATCH WT 6 x 15 ARE FLUSH WITH BOTTOM SLAB SURFACE



GRATE DETAIL



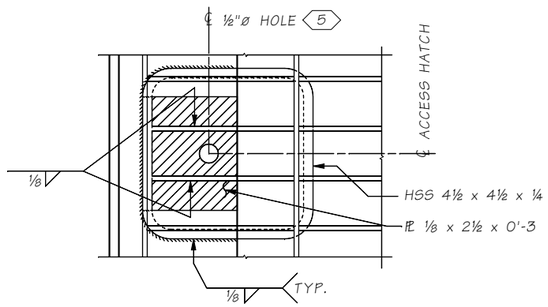
PLAN



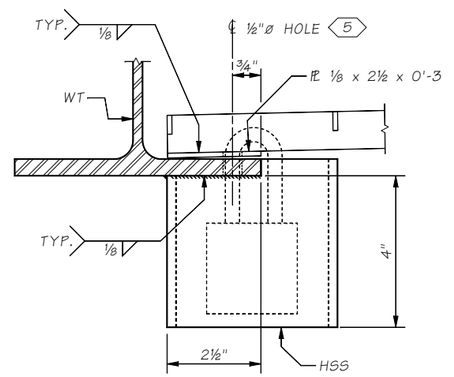
ELEVATION

REINFORCEMENT NOT SHOWN FOR CLARITY

DETAIL 1



PLAN



ELEVATION

DETAIL 2

NOTES:

1. STEEL IN GRATES, STRUCTURAL SHAPES, AND ANCHORS FOR ACCESS HATCH SHALL CONFORM TO ASTM A36, EXCEPT STRUCTURAL TUBE (HSS) SHALL CONFORM TO ASTM A500, GRADE B. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M 111. STEEL GRATING SHALL BE FABRICATED BY WELD CONNECTIONS. WELDS, WELDING PROCEDURES, AND WELDING MATERIALS SHALL CONFORM TO THE AWS D1.1, LATEST EDITION, STRUCTURAL WELDING CODE.
2. GALVANIZED WELDED STEEL WIRE CLOTH SHALL CONFORM TO ASTM A740 WITH 0.026 INCH DIAMETER WIRES SPACED AT ¼ INCH ON CENTER.
3. FOR ACCESS HATCH LOCATIONS, SEE BR. SHT. BR5.
4. ALL EXPOSED PARTS SHALL BE PAINTED IN ACCORDANCE WITH SECTION 6-07.3(11) WITH THE COLOR OF THE FINISH COAT MATCHING SAE AMS STANDARD 595 COLOR NO. 26420 WHEN DRY.

⟨5⟩ FIELD DRILL ½"ø HOLE THRU PL & WT FOR PADLOCK.

SR 90 FILE NO. SHEET BB6

Bridge Design Engr.	Khaleghi, B		M:\PAVING\BR90-136S_I-90 OVER CLE ELUM RD, RR_BRIDGE DECK REHAB_SCR\window files\ACCESSHATCHDTLS.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Aldrich, BS						10	WASH.			
Designed By	Hsieh, JC	12/19					JOB NUMBER 22Y001				
Checked By	Lee, CS	10/21					CONTRACT NO.				
Detailed By	Bontemps, W	12/19									
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist			DATE	REVISION	BY	APP'D					

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P.E. STAMP BOX: BRIAN S. ALDRICH, STATE OF WASHINGTON, 37834, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX: BILIAN KHALEGHI, STATE OF WASHINGTON, 37695, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

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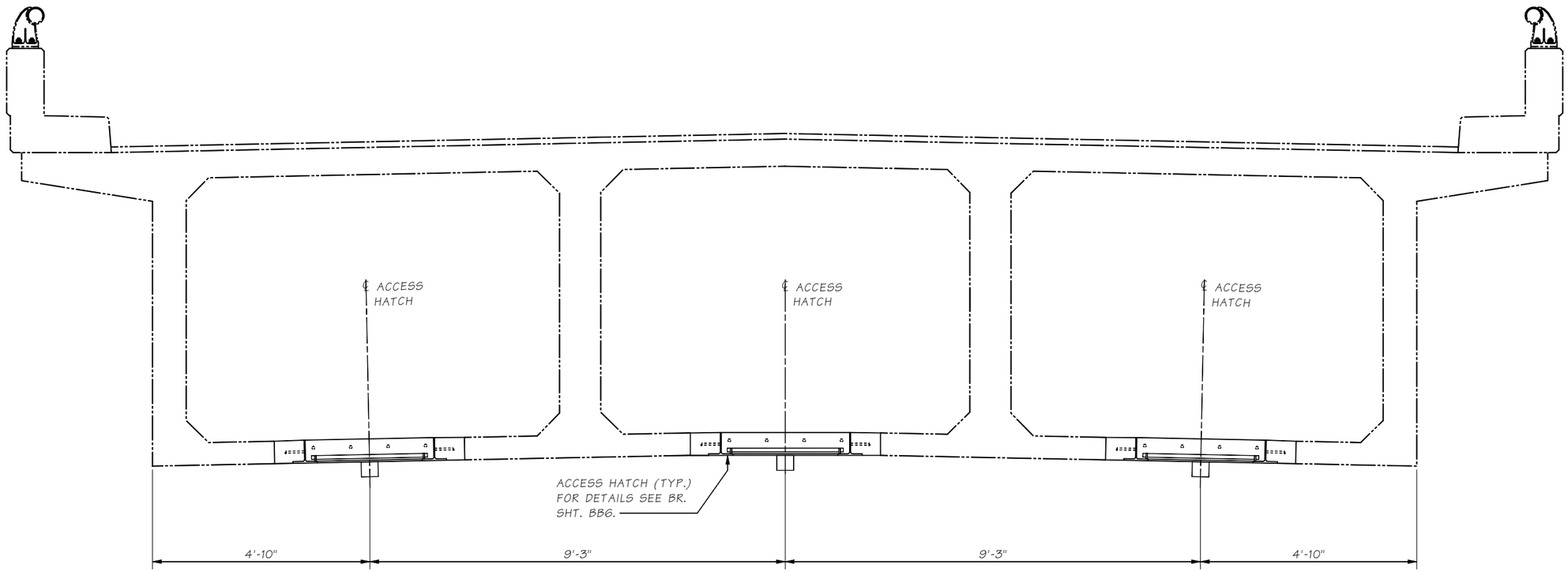
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136S

ACCESS HATCH DETAILS

BRIDGE SHEET NO. BB6

SHEET 83 OF 108 SHEETS



TYPICAL SECTION AT ACCESS HATCH

(3 LOCATIONS)

SR 90 FILE NO. ____ SHEET BB7

Bridge Design Engr.	Khaleghi, B		M:\PAVING\BR90-136S_I-90 OVER CLE ELUM RD, RR_BRIDGE DECK REHAB_SCR\window files\TYPACCESSHATCH.wnd								
Supervisor	Aldrich, BS										
Designed By	Hsieh, JC	12/19									
Checked By	Lee, CS	10/21									
Detailed By	Bontemps, W	12/19									
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist			DATE	REVISION	BY	APP'D					

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.			
JOB NUMBER 22Y001				
CONTRACT NO.				

P.E. STAMP BOX
BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER — STRUCTURAL ENGINEER
SEE SHEET CT1
DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX
BIJAN KHALEGHI — STATE OF WASHINGTON — 27080 — PROFESSIONAL ENGINEER — STRUCTURAL ENGINEER
SEE SHEET CT1
DATE:

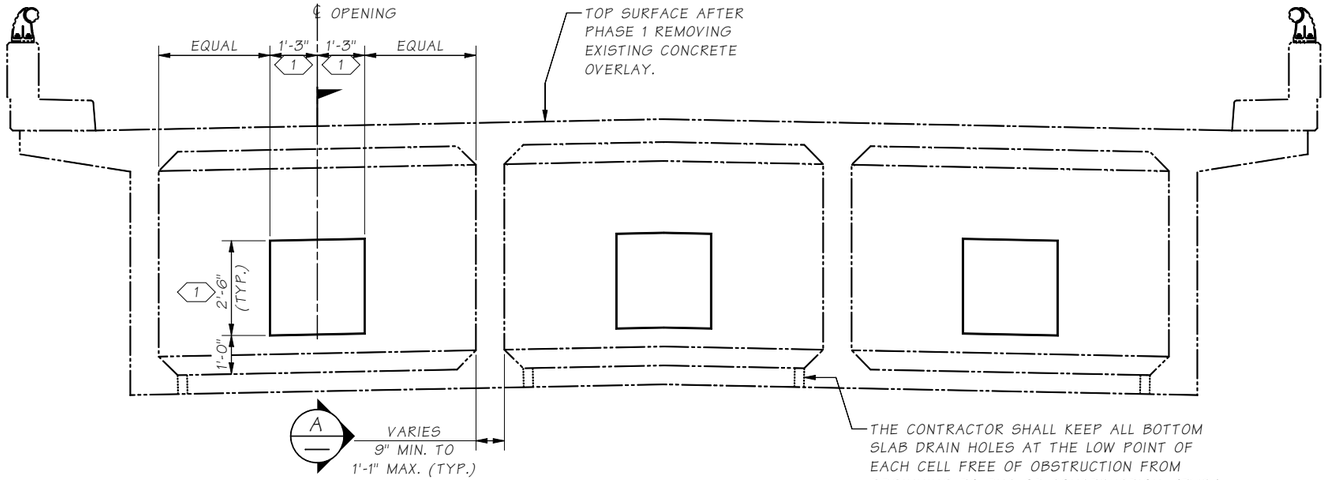
Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136S

TYPICAL ACCESS HATCH OPENING

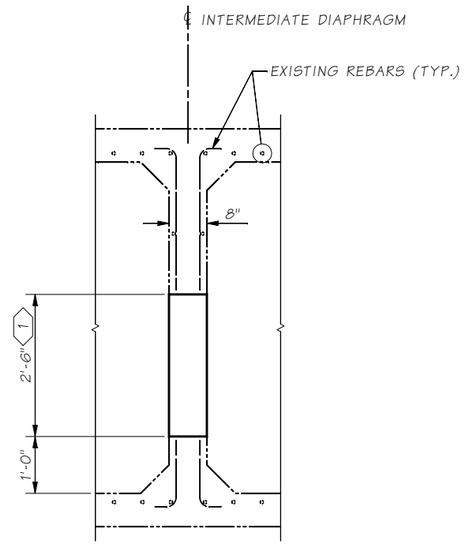
BRIDGE SHEET NO. BB7
SHEET 84 OF 108 SHEETS

Mon Mar 21 06:09:44 2022



INTERMEDIATE DIAPHRAGM OPENING DETAIL

TYPICAL AT ALL INTERMEDIATE DIAPHRAGMS (21 TOTAL OPENINGS)



SECTION A

NOTES:

1. REMOVE SPECIFIED PORTIONS OF EXISTING CONCRETE IN ACCORDANCE WITH SECTION 2-02.3(2)A2

SR 90 FILE NO. SHEET BB8

Bridge Design Engr.	Khaleghi, B	
Supervisor	Aldrich, BS	
Designed By	Hsieh, JC	12/19
Checked By	Lee, CS	10/21
Detailed By	Bontemps, W	12/19
Bridge Projects Engr.		
Prelim. Plan By		
Architect/Specialist		

M:\PAVING\BR90-136S_I-90 OVER CLE ELUM RD, RR_BRIDGE DECK REHAB_SCR\window files\INTERMEDIATEDIAPDTLS.wnd

DATE	REVISION	BY	APP'D

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.			

JOB NUMBER 22Y001

CONTRACT NO.

P.E. STAMP BOX

BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX

BIJAN KHALEGHI — STATE OF WASHINGTON — 27695 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE:

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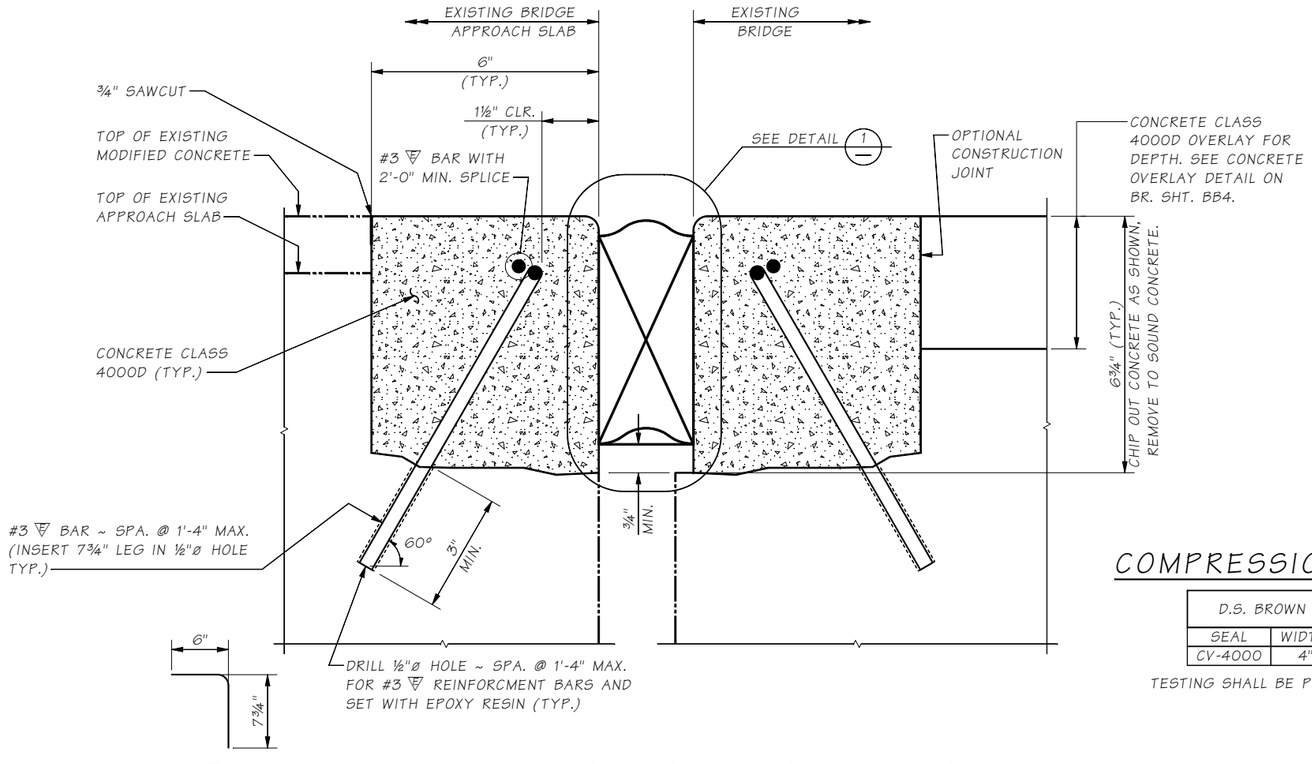
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136S

INTERMEDIATE DIAPHRAGM OPENING DETAILS

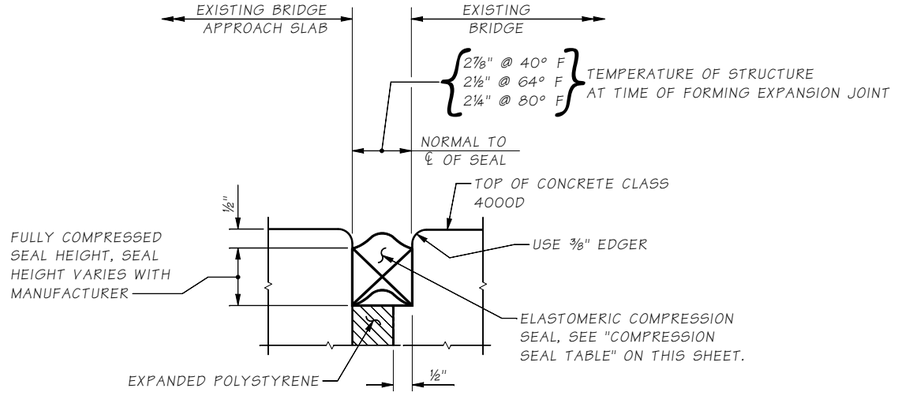
BRIDGE SHEET NO. BB8

SHEET 85 OF 108 SHEETS

Mon Mar 21 06:09:46 2022



EXPANSION JOINT MODIFICATION



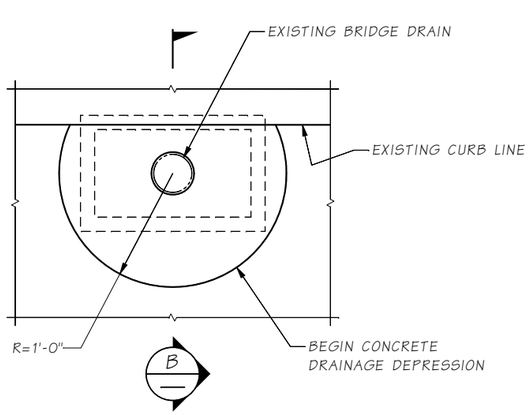
DETAIL 1/—

COMPRESSION SEAL DETAIL EXPANSION JOINT AT BACK OF PAVEMENT SEAT

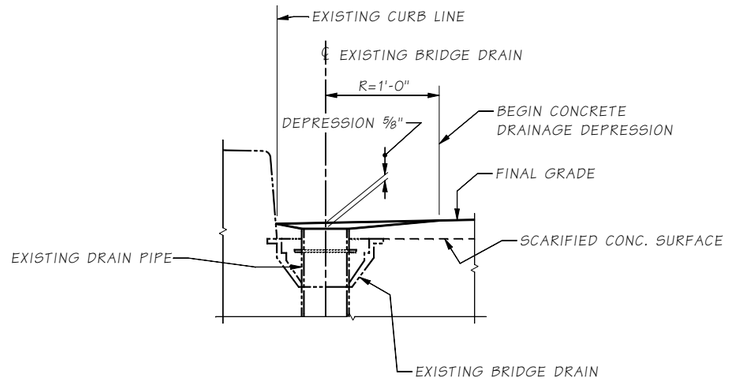
COMPRESSION SEAL TABLE

D.S. BROWN		WATSON BOWMAN ACME	
SEAL	WIDTH	SEAL	WIDTH
CV-4000	4"	WA-400	4"

TESTING SHALL BE PER ASTM D2628 PRIOR TO USE.



CONCRETE OVERLAY DEPRESSION AT EXISTING BRIDGE DRAIN



SECTION B/—

NOTES:

1. THE CONTRACTION SHALL TEMPORARILY BLOCK ALL BRIDGE DRAINS FROM BEGINNING TO END OF CONSTRUCTION.

SR 90 FILE NO. SHEET BB9

Bridge Design Engr.	Khaleghi, B	M:\PAVING\BR90-136S_I-90 OVER CLE ELUM RD, RR_BRIDGE DECK REHAB_SCR\window files\BRIDGEDRAINDTLS.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Aldrich, BS					10	WASH.			
Designed By	Hsieh, JC 12/19					JOB NUMBER 22Y001				
Checked By	Lee, CS 10/21					CONTRACT NO.				
Detailed By	Bontemps, W 12/19									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

Mon Mar 21 06:09:47 2022

P.E. STAMP BOX: BRIAN S. ALDRICH, STATE OF WASHINGTON, 37834, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX: BIJAN KHALEGHI, STATE OF WASHINGTON, 37695, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

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I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136S

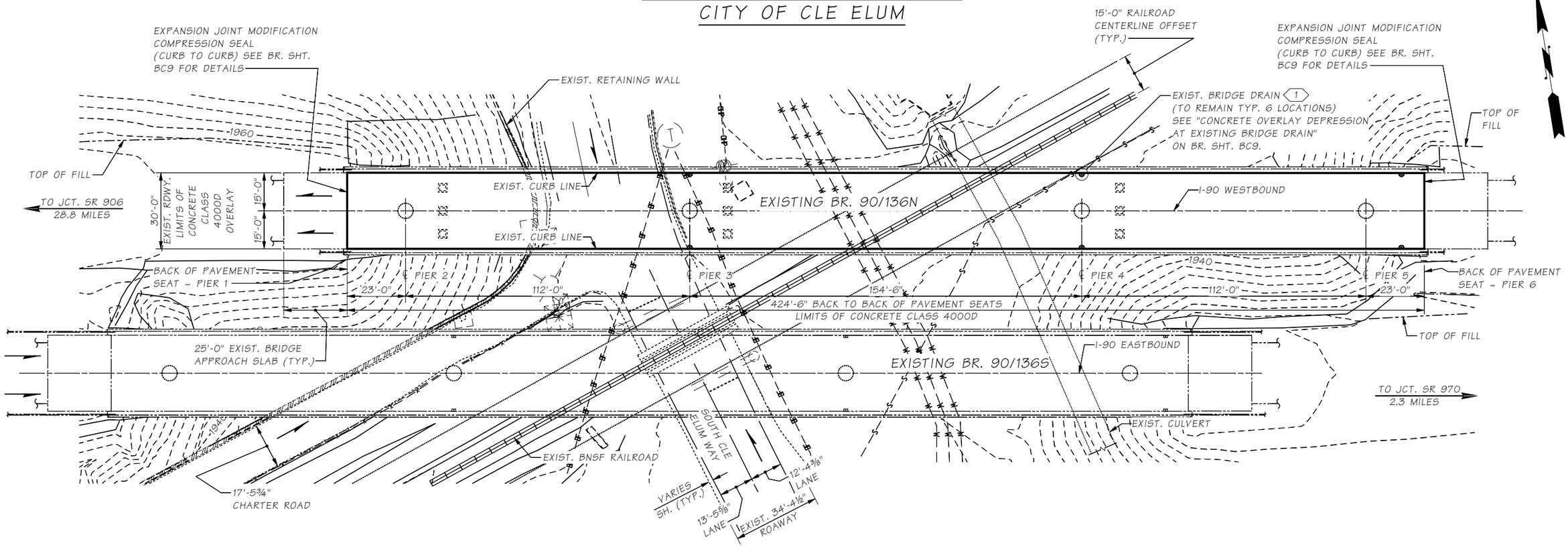
EXPANSION JOINT MODIFICATION DETAILS AND BRIDGE DRAIN

BRIDGE SHEET NO. BB9

SHEET 86 OF 108 SHEETS

SEC. 27, T.20N., R.15E., W.M.
CITY OF CLE ELUM

I-90



PLAN

NOTE:

1. THE CONTRACTOR SHALL TEMPORARILY BLOCK ALL BRIDGE DRAINS DURING THE REHAB CONSTRUCTION WORK ON THE BRIDGE.

LEGEND

- EXIST. DITCH LINE (NO DIRECTION)
- EXIST. WATER LINE
- EXIST. OVERHEAD POWER
- EXIST. GUARD RAIL
- EXIST. FENCE
- EXIST. RETAINING WALL
- EXIST. RAILROAD
- EXIST. EDGE OF PAVEMENT
- EXIST. LINE STOP
- EXISTING BURIED FIBER OPTIC
- EXISTING SANITARY SEWER LINE
- B / BC15 — IDENTIFIES SECTION OR VIEW; TAKEN OR SHOWN ON BRIDGE SHEET BC15
- 1 / — IDENTIFIES DETAIL; TAKEN OR SHOWN ON THE SAME SHEET
- 99 — FLAGNOTE: IDENTIFIES NOTE REFERENCE ON THE SAME SHEET
- EXISTING DOWN GUY ANCHOR
- EXISTING LIGHT STANDARD SINGLE METAL
- NEW ACCESS HATCH ~ SEE BR. SHT. BC5 FOR DETAILS
- EXISTING BUILDING NOT CLOSED
- EXISTING UTILITY POLE
- EXISTING POWER METER BOX
- EXISTING J-BOX UNKNOWN
- EXISTING CONTROLLER CABINET
- EXISTING CATCH BASIN
- EXISTING TELEPHONE MANHOLE
- EXISTING TRUSS CANTILEVER

GENERAL NOTES:

1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2022, AND AMENDMENTS.
2. THE DIMENSIONS SHOWN IN THE PLANS ARE BASED ON AS-BUILT PLANS. ALL RELEVANT DETAILS AND DIMENSIONS SHALL BE FIELD MEASURED AND VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS AND PROCEEDING WITH CONSTRUCTION.
3. THE CONTRACTOR SHALL SCARIFY AND OVERLAY THE BRIDGE DECK FOLLOWING THE SEQUENCE SHOWN ON BR. SHT. BC3.
4. SEE "SURFACE SCARIFICATION LIMITATIONS" ON BR. SHT. BC4.

CONCRETE CLASS 4000D OVERLAY

SR 90 FILE NO. SHEET BC1

Bridge Design Engr.	Khaleghi, B	M:\PAVING\BR90-136N_I-90 OVER CLE ELUM RD. RR_ BRIDGE DECK REHAB_SCR\window files\LAYOUT.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Aldrich, BS					10	WASH.			
Designed By	Hsieh, JC 01/21					JOB NUMBER 22Y001				
Checked By	Lee, CS 10/21					CONTRACT NO.				
Detailed By	Bontemps, W 01/21									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

P.E. STAMP BOX — SEE SHEET CT1 DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX — BILLAN KHALEGHI, STATE OF WASHINGTON, 37695, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER — SEE SHEET CT1 DATE:

Washington State Department of Transportation

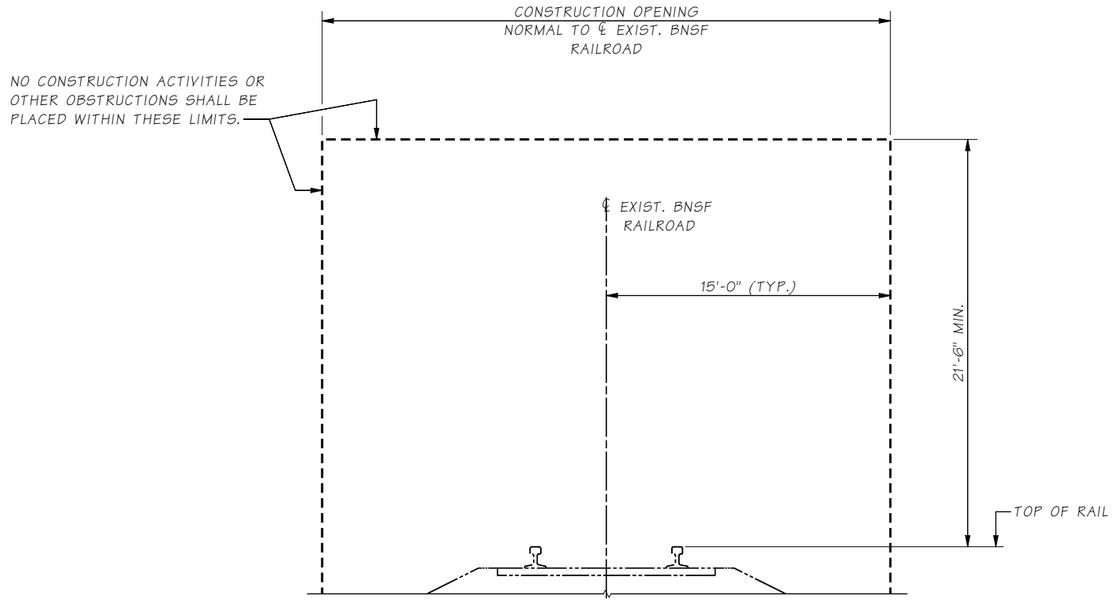
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136N

LAYOUT

BRIDGE SHEET NO. BC1

SHEET 87 OF 108 SHEETS

Mon Mar 21 06:06:21 2022



CONSTRUCTION OPENING

SR 90 FILE NO. SHEET BC2

Bridge Design Engr.	Khaleghi, B	M:\PAVING\BR90-136N_I-90 OVER CLE ELUM RD. RR_ BRIDGE DECK REHAB_SCR\window files\TYP SECT.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Aldrich, BS					10	WASH.			
Designed By	Hsieh, JC 01/21					JOB NUMBER 22Y001				
Checked By	Lee, CS 10/21					CONTRACT NO.				
Detailed By	Bontemps, W 01/21									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

P.E. STAMP BOX
BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX
BIJAN KHALEGHI — STATE OF WASHINGTON — 37606 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE:

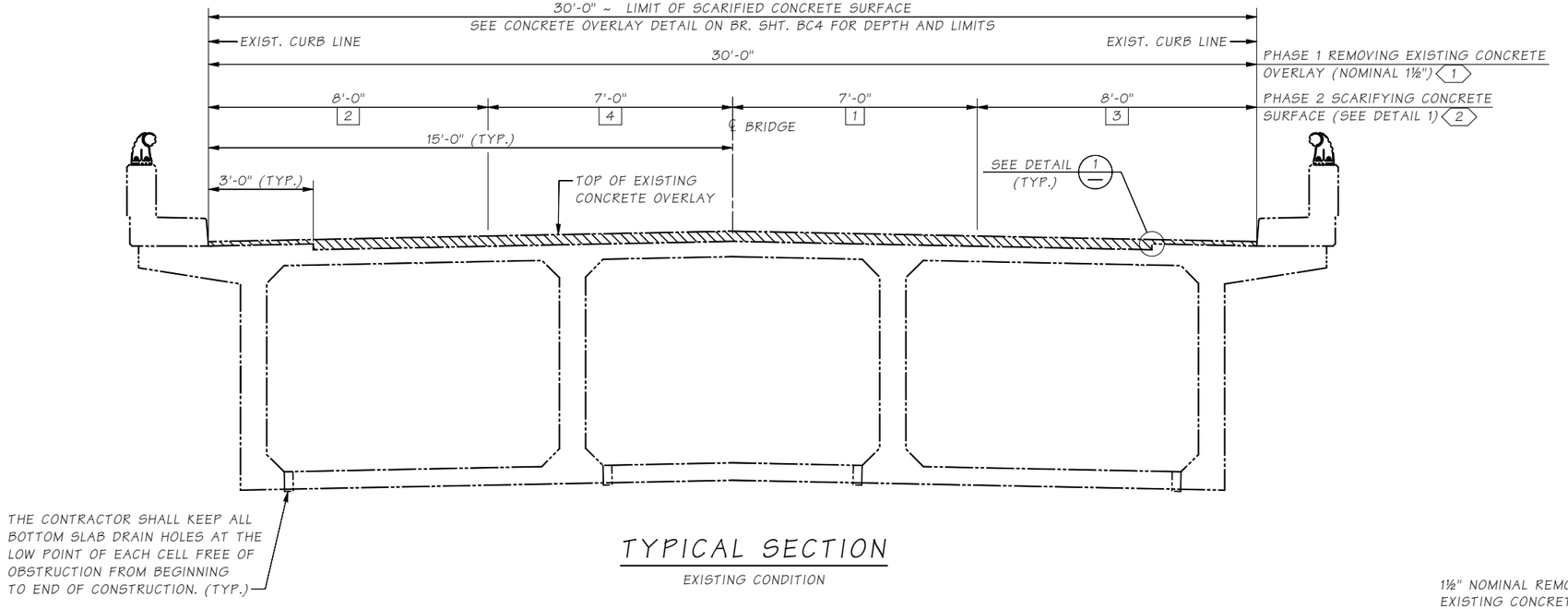
Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136N

CONSTRUCTION OPENING

BRIDGE SHEET NO. BC2
SHEET 88 OF 108 SHEETS

Mon Mar 21 06:06:40 2022



THE CONTRACTOR SHALL KEEP ALL BOTTOM SLAB DRAIN HOLES AT THE LOW POINT OF EACH CELL FREE OF OBSTRUCTION FROM BEGINNING TO END OF CONSTRUCTION. (TYP.)

TYPICAL SECTION

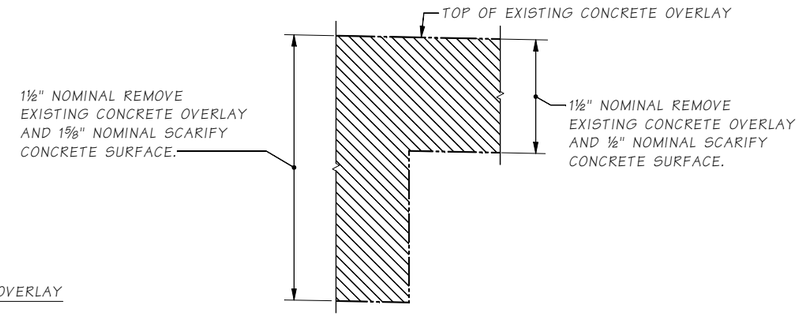
EXISTING CONDITION

NOTES:

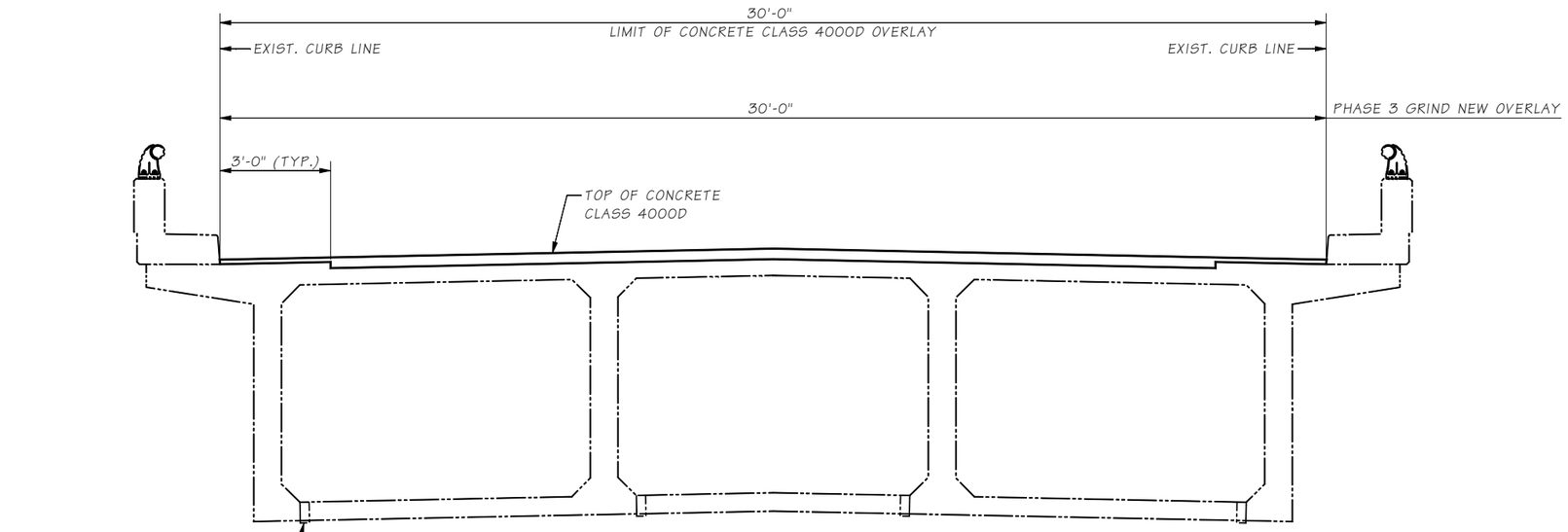
1. PHASE 1 CONSISTS OF REMOVING THE TOP NOMINAL 1½" OF EXISTING CONCRETE OVERLAY OVER THE FULL WIDTH OF THE BRIDGE DECK.
2. PHASE 2 CONSISTS OF SCARIFYING THE CONCRETE SURFACE TO THE DEPTHS SPECIFIED ON BR. SHT. BC4 AND IN THE LONGITUDINAL STRIP SEQUENCE SPECIFIED IN THE TYPICAL SECTIONS SHOWN ON THIS SHEET, FOLLOWED BY PLACING CONCRETE CLASS 4000D OVERLAY TO ¼" ABOVE FINAL GRADE PROFILE. CONCRETE SURFACE SCARIFICATION IN THE NEXT LONGITUDINAL STRIP SHALL NOT BE STARTED UNTIL THE CONCRETE OVERLAY IN THE PREVIOUS STRIP HAS CURED FOR 7 CALENDAR DAYS.

HATCHING DENOTES REMOVAL AREA

[#] DENOTES LONGITUDINAL STRIP SEQUENCE



DETAIL 1



THE CONTRACTOR SHALL KEEP ALL BOTTOM SLAB DRAIN HOLES AT THE LOW POINT OF EACH CELL FREE OF OBSTRUCTION FROM BEGINNING TO END OF CONSTRUCTION. (TYP.)

TYPICAL SECTION

MODIFIED CONDITION

SR 90 FILE NO. SHEET BC3

Bridge Design Engr.	Khaleghi, B		M:\PAVING\BR90-136N_I-90 OVER CLE ELUM RD. RR_ BRIDGE DECK REHAB_SCR\window files\SCARIFICATION OVERLAY.wnd			REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Aldrich, BS					10	WASH.			
Designed By	Hsieh, JC	01/21				JOB NUMBER 22Y001				
Checked By	Lee, CS	10/21				CONTRACT NO.				
Detailed By	Bontemps, W	01/21								
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist			DATE	REVISION	BY	APP'D				

Mon Mar 21 06:06:41 2022

P.E. STAMP BOX: BRIAN S. ALDRICH, STATE OF WASHINGTON, 37834, PROFESSIONAL ENGINEER, STRUCTURAL ENGINEER — SEE SHEET CT1 — DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX: BIJAN KHALEGHI, STATE OF WASHINGTON, 27695, PROFESSIONAL ENGINEER, STRUCTURAL ENGINEER — SEE SHEET CT1 — DATE:

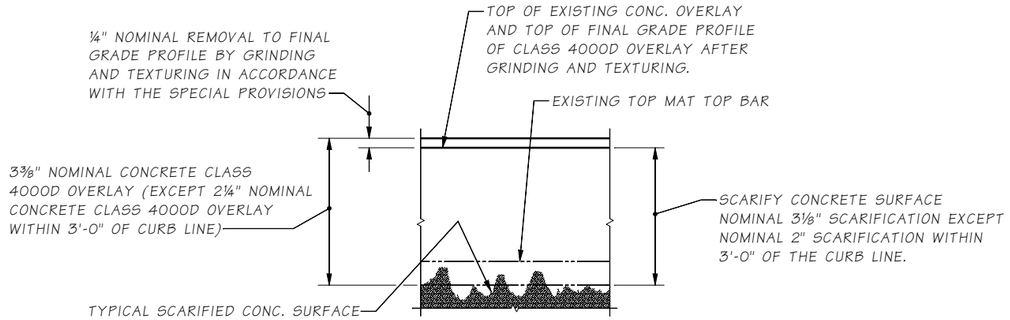
Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136N

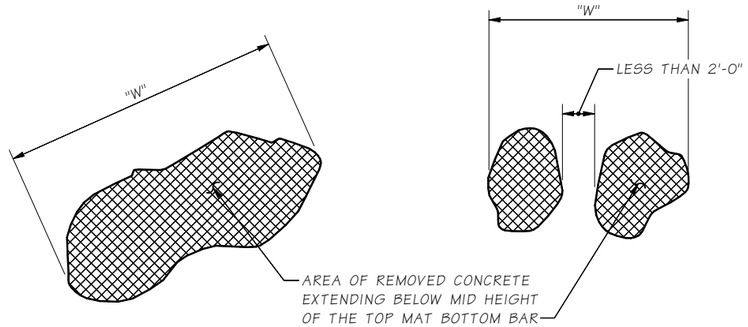
SCARIFICATION AND CONC. CLASS 4000D OVERLAY SEQUENCE ON BRIDGE DECK

BRIDGE SHEET NO. BC3

SHEET 89 OF 108 SHEETS



CONCRETE OVERLAY DETAIL

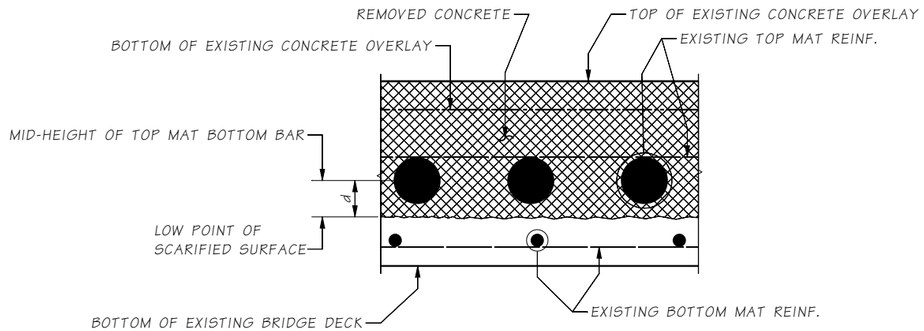


PLAN
SURFACE SCARIFICATION LIMITATIONS

FOR CASES WHERE TWO ADJACENT AREAS ARE SPACED LESS THAN 2'-0" APART, THE TWO AREAS SHALL BE CONSIDERED A SINGLE AREA.

SURFACE SCARIFICATION LIMITATIONS NOTE:

1. IF THE LIMITS SHOWN IN TABLE 1 ARE EXCEEDED DURING THE SCARIFYING CONCRETE SURFACE PROCESS, THE CONTRACTOR SHALL DISCONTINUE SCARIFYING IN THIS AREA, UNTIL TYPE 2 DECK REPAIRS HAVE BEEN COMPLETED IN ACCORDANCE WITH STD. SPEC. SECTION 6-09.3(6)C. SCARIFYING CONCRETE SURFACE OPERATIONS MAY RESUME PRIOR TO COMPLETING THE TYPE 2 DECK REPAIRS AT A DISTANCE OF NO LESS THAN 10'-0" FROM THE EDGE OF THE AREA REQUIRING TYPE 2 DECK REPAIRS.



SECTION
SURFACE SCARIFICATION LIMITATIONS

TABLE 1	
MAXIMUM DEPTH OF REMOVED CONC. BELOW MID-HEIGHT OF TOP MAT BOTTOM BAR	MAX. PLAN DIMENSION "W" LIMIT
$d \leq 1"$	8'-0"
$1" < d < 2"$	4'-0"
$2" \leq d$	1'-6"

SR 90 FILE NO. ____ SHEET BC4

Bridge Design Engr.	Khaleghi, B	M:\PAVING\BR90-136N_I-90 OVER CLE ELUM RD. RR_ BRIDGE DECK REHAB_SCR\window files\PAVINGDTLS.wnd								
Supervisor	Aldrich, BS					REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Designed By	Hsieh, JC 01/21					10	WASH.			
Checked By	Lee, CS 10/21					JOB NUMBER 22Y001				
Detailed By	Bontemps, W 01/21					CONTRACT NO.				
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

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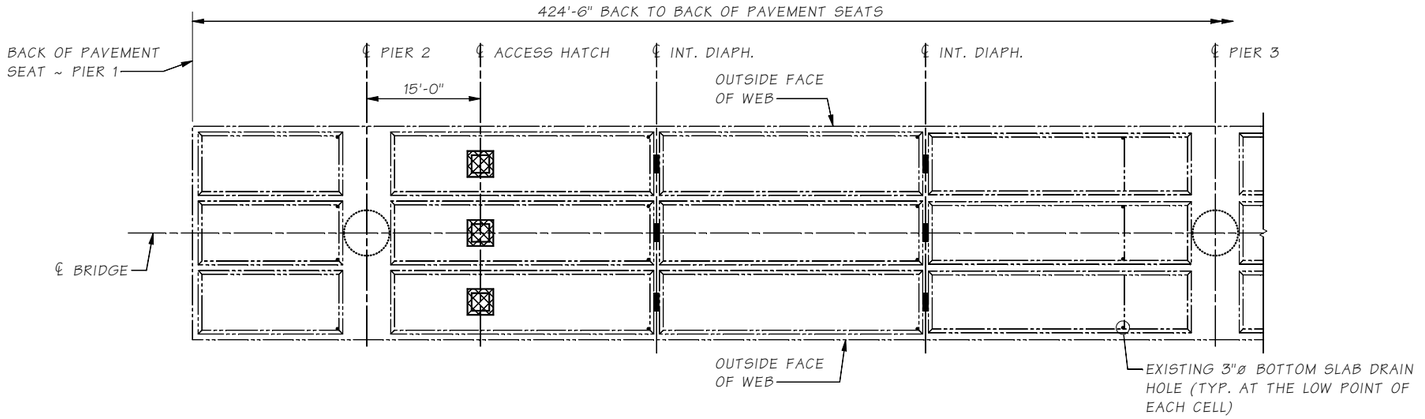
Washington State Department of Transportation

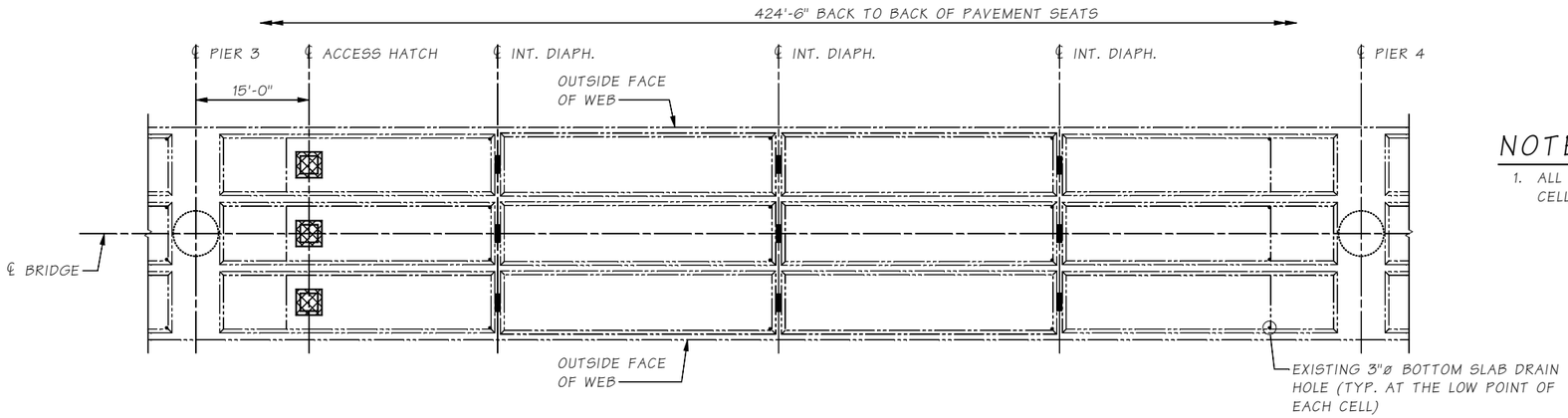
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136N

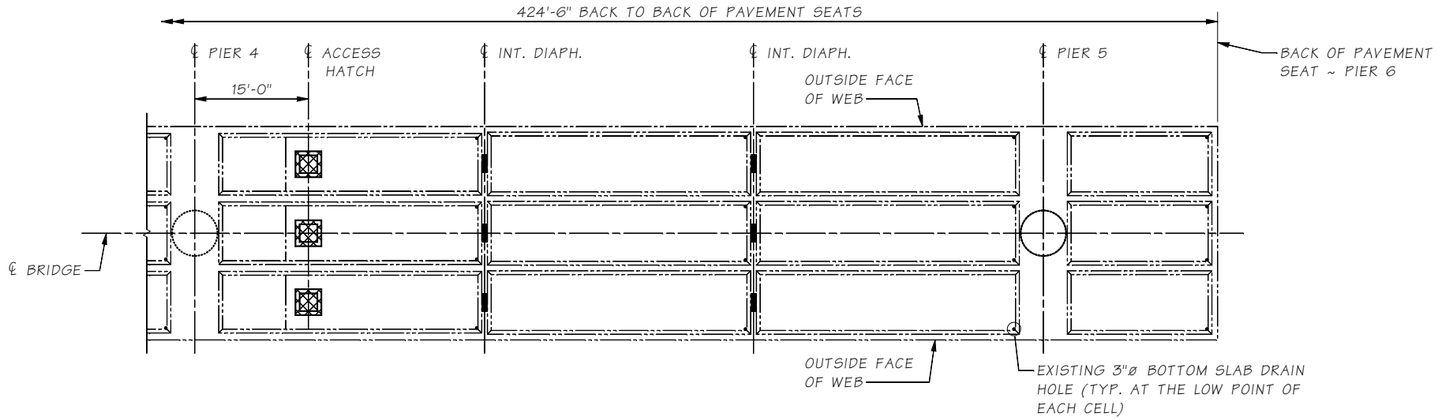
SCARIFIED CONC. SURFACE AND SUEFACE SCARIFICATION LIMITATIONS

BRIDGE SHEET NO. BC4
SHEET 90 OF 108 SHEETS

Mon Mar 21 06:06:43 2022







NOTE:

1. ALL EXISTING FALSEWORK, FORMWORKS, AND DEBRIS INSIDE ALL BOX CELLS FROM ℄ PIER 2 THROUGH ℄ PIER 5 SHALL BE REMOVED.

LEGEND

4'-2¾" x 4'-2¾" CONCRETE REMOVAL FROM THE EXISTING BOTTOM SLAB (9 LOCATIONS), CENTER BETWEEN GIRDERS FOR ACCESS DOOR. SEE BR. SHT. BC6 FOR DETAILS.

2'-6" x 2'-6" INTERMEDIATE DIAPHRAGM OPENING FOR PERMANENT ACCESS (21 LOCATIONS). SEE BR. SHT. BC8 FOR DETAILS.

BOTTOM SLAB PLAN

SR 90 FILE NO. SHEET BC5

Bridge Design Engr.	Khaleghi, B	M:\PAVING\BR90-136N_I-90 OVER CLE ELUM RD. RR_ BRIDGE DECK REHAB_SCR\window files\BOTTOMFRAMEINGPLAN.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Aldrich, BS					10	WASH.			
Designed By	Hsieh, JC 01/21					JOB NUMBER 22Y001				
Checked By	Lee, CS 10/21					CONTRACT NO.				
Detailed By	Bontemps, W 01/21									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

Mon Mar 21 06:06:47 2022

P.E. STAMP BOX — BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX — BRIAN KHALEGHI — STATE OF WASHINGTON — 37100 — PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE

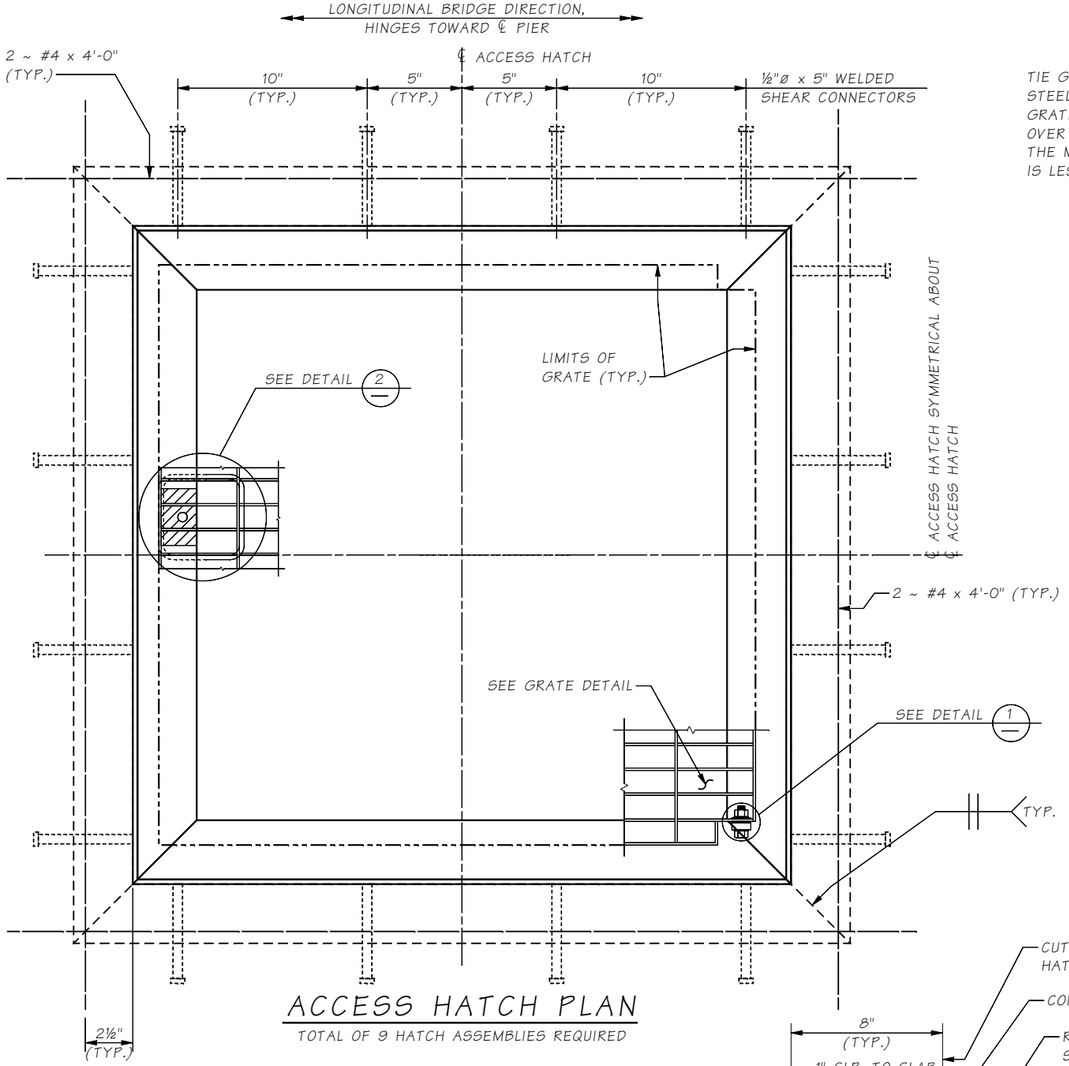
Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136N

REMOVING PORTION OF EXISTING BRIDGE

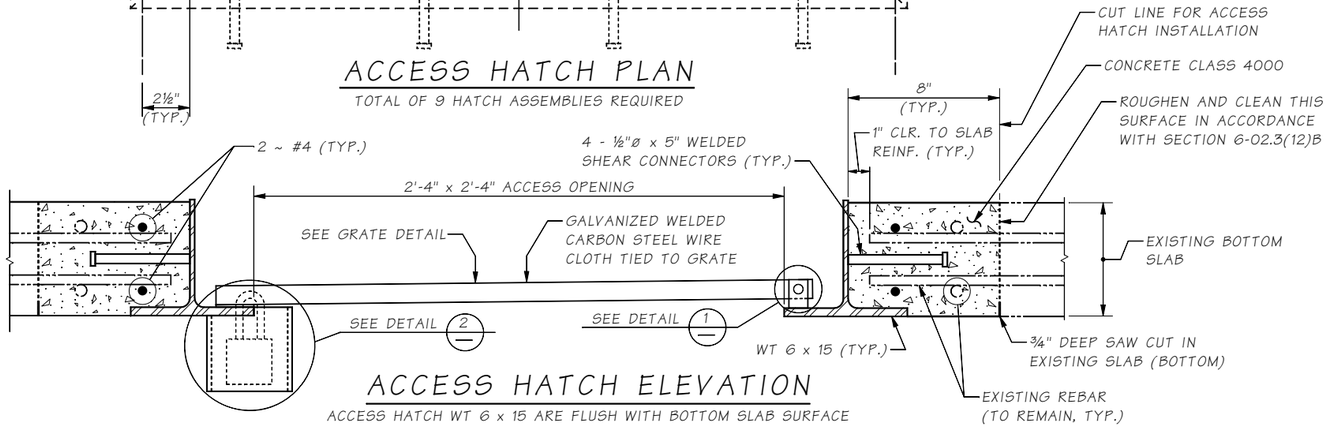
BRIDGE SHEET NO. BC5

SHEET 91 OF 108 SHEETS



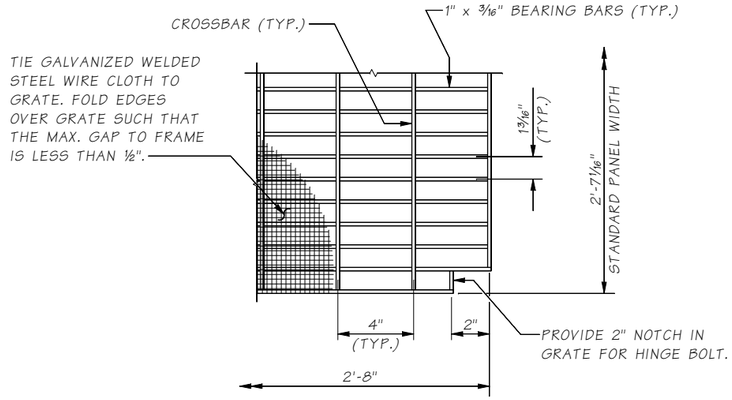
ACCESS HATCH PLAN

TOTAL OF 9 HATCH ASSEMBLIES REQUIRED

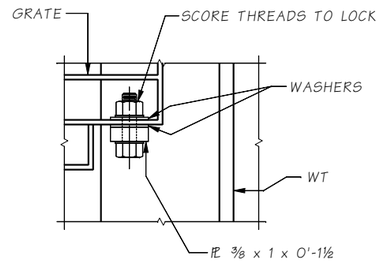


ACCESS HATCH ELEVATION

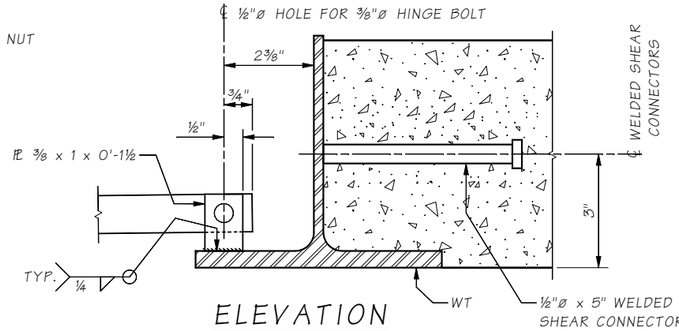
ACCESS HATCH WT 6 x 15 ARE FLUSH WITH BOTTOM SLAB SURFACE



GRATE DETAIL



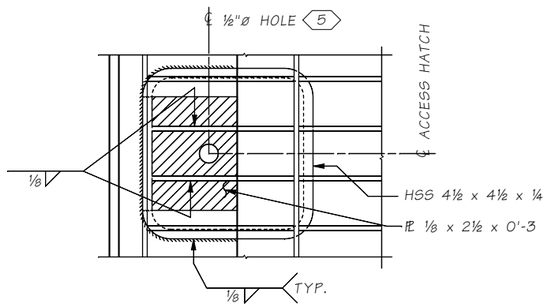
PLAN



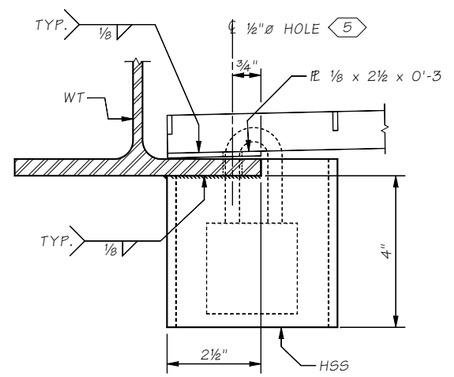
ELEVATION

REINFORCEMENT NOT SHOWN FOR CLARITY

DETAIL 1



PLAN



ELEVATION

DETAIL 2

NOTES:

1. STEEL IN GRATES, STRUCTURAL SHAPES, AND ANCHORS FOR ACCESS HATCH SHALL CONFORM TO ASTM A36, EXCEPT STRUCTURAL TUBE (HSS) SHALL CONFORM TO ASTM A500, GRADE B. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M 111. STEEL GRATING SHALL BE FABRICATED BY WELD CONNECTIONS. WELDS, WELDING PROCEDURES, AND WELDING MATERIALS SHALL CONFORM TO THE AWS D1.1, LATEST EDITION, STRUCTURAL WELDING CODE.
2. GALVANIZED WELDED STEEL WIRE CLOTH SHALL CONFORM TO ASTM A740 WITH 0.026 INCH DIAMETER WIRES SPACED AT ¼ INCH ON CENTER.
3. FOR ACCESS HATCH LOCATIONS, SEE BR. SHT. BR5.
4. ALL EXPOSED PARTS SHALL BE PAINTED IN ACCORDANCE WITH SECTION 6-07.3(11) WITH THE COLOR OF THE FINISH COAT MATCHING SAE AMS STANDARD 595 COLOR NO. 26420 WHEN DRY.

(5) FIELD DRILL ½"ø HOLE THRU PL & WT FOR PADLOCK.

SR 90 FILE NO. SHEET BC6

Bridge Design Engr.	Khaleghi, B		M:\PAVING\BR90-136N_I-90 OVER CLE ELUM RD. RR_ BRIDGE DECK REHAB_SCR\window files\ACCESSHATCHDTLS.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Aldrich, BS						10	WASH.			
Designed By	Hsieh, JC	01/21					JOB NUMBER 22Y001				
Checked By	Lee, CS	10/21					CONTRACT NO.				
Detailed By	Bontemps, W	01/21									
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist			DATE	REVISION	BY	APP'D					

Mon Mar 21 06:06:48 2022

P.E. STAMP BOX: BRIAN S. ALDRICH, STATE OF WASHINGTON, 37834, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

BRIDGE AND STRUCTURES OFFICE

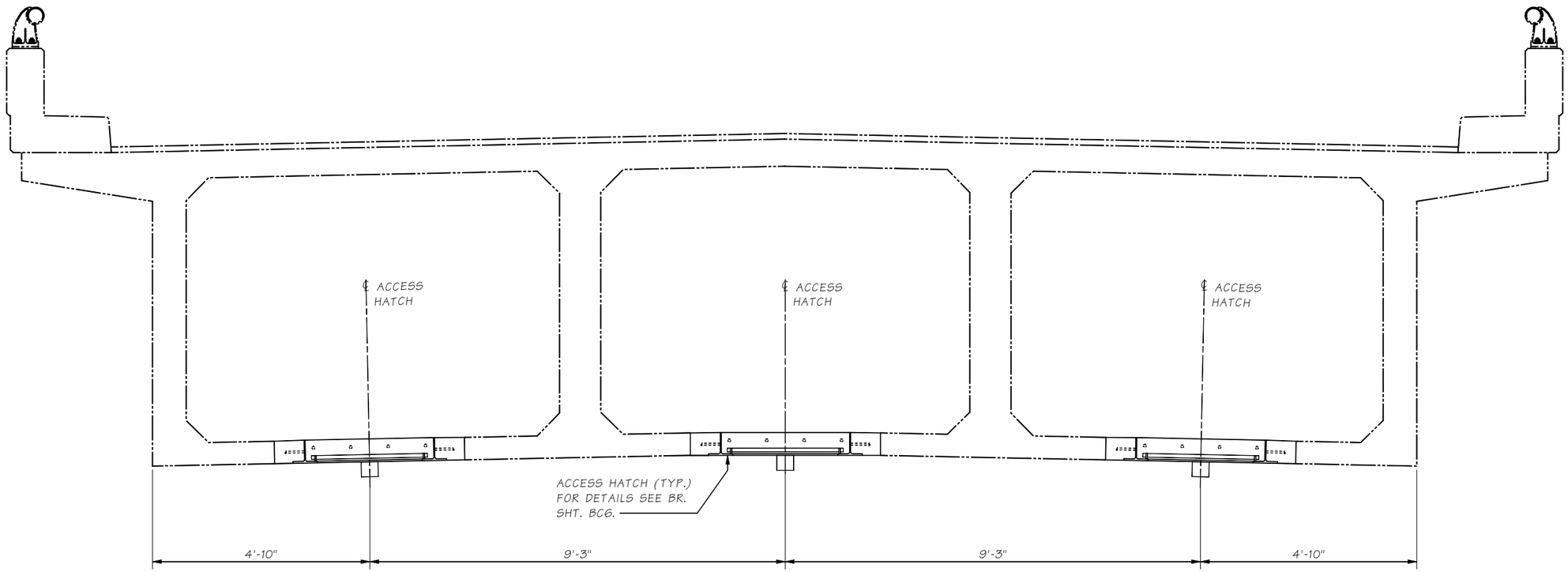
P.E. STAMP BOX: BILIAN KHALEGHI, STATE OF WASHINGTON, 37695, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136N

ACCESS HATCH DETAILS

BRIDGE SHEET NO. BC6
SHEET 92 OF 108 SHEETS



TYPICAL SECTION AT ACCESS HATCH

(3 LOCATIONS)

SR 90 FILE NO. ____ SHEET BC7

Bridge Design Engr.	Khaleghi, B		M:\PAVING\BR90-136N_I-90 OVER CLE ELUM RD. RR_ BRIDGE DECK REHAB_SCR\window files\TYPACCESSHATCH.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Aldrich, BS						10	WASH.			
Designed By	Hsieh, JC	01/21					JOB NUMBER 22Y001				
Checked By	Lee, CS	10/21					CONTRACT NO.				
Detailed By	Bontemps, W	01/21									
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist			DATE	REVISION	BY	APP'D					

Mon Mar 21 06:06:50 2022

P.E. STAMP BOX
BRIAN S. ALDRICH — STATE OF WASHINGTON — 37834 — PROFESSIONAL ENGINEER — STRUCTURAL ENGINEER
SEE SHEET CT1
DATE:

BRIDGE AND STRUCTURES OFFICE

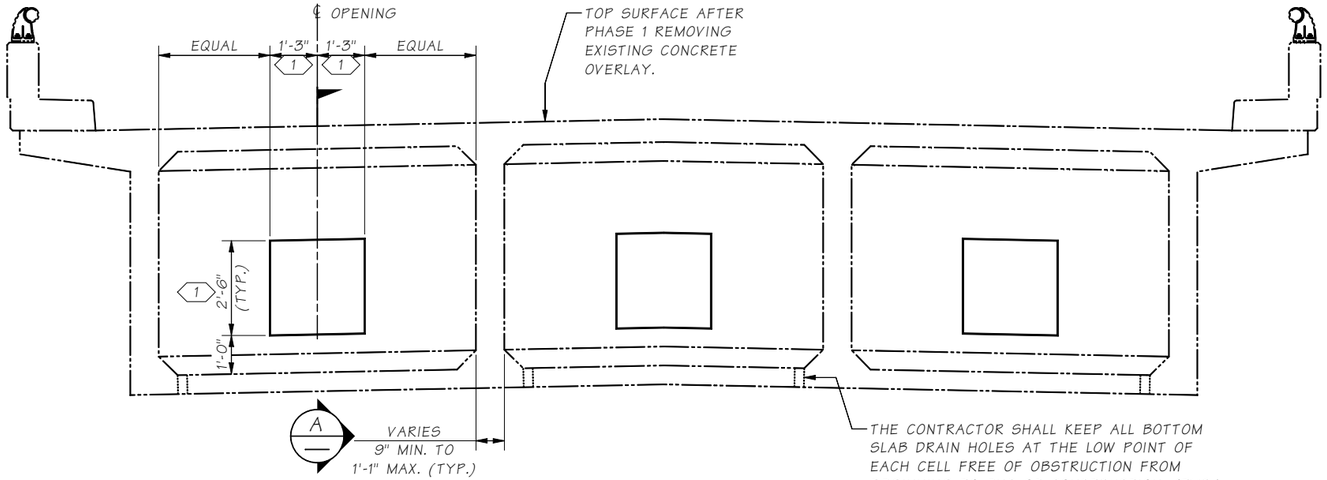
P.E. STAMP BOX
BRIAN KHALEGHI — STATE OF WASHINGTON — 27080 — PROFESSIONAL ENGINEER — STRUCTURAL ENGINEER
SEE SHEET CT1
DATE:

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136N

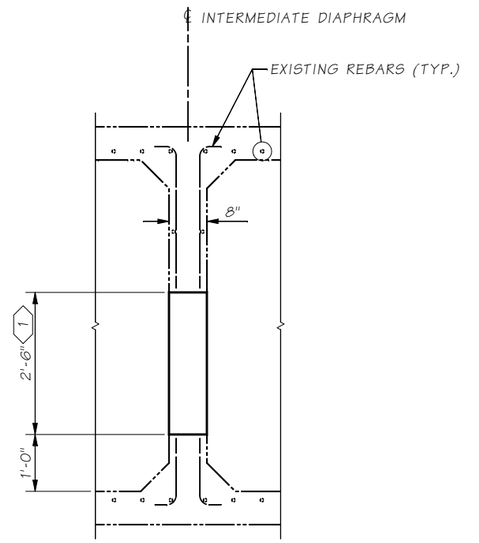
TYPICAL ACCESS HATCH OPENING

BRIDGE SHEET NO. BC7
SHEET 93 OF 108 SHEETS



INTERMEDIATE DIAPHRAGM OPENING DETAIL

TYPICAL AT ALL INTERMEDIATE DIAPHRAGMS (21 TOTAL OPENINGS)



SECTION A

NOTES:

1. 1 REMOVE SPECIFIED PORTIONS OF EXISTING CONCRETE IN ACCORDANCE WITH SECTION 2-02.3(2)A2

SR 90 FILE NO. SHEET BC8

Bridge Design Engr.	Khaleghi, B	M:\PAVING\BR90-136N_I-90 OVER CLE ELUM RD. RR_ BRIDGE DECK REHAB_SCR\window files\INTERMEDIATEDIADTLS.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Aldrich, BS					10	WASH.			
Designed By	Hsieh, JC 01/21					JOB NUMBER 22Y001				
Checked By	Lee, CS 10/21					CONTRACT NO.				
Detailed By	Bontemps, W 01/21									
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					

P.E. STAMP BOX: BRIAN S. ALDRICH, STATE OF WASHINGTON, 37834, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX: BIJAN KHALEGHI, STATE OF WASHINGTON, 27695, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

Washington State Department of Transportation

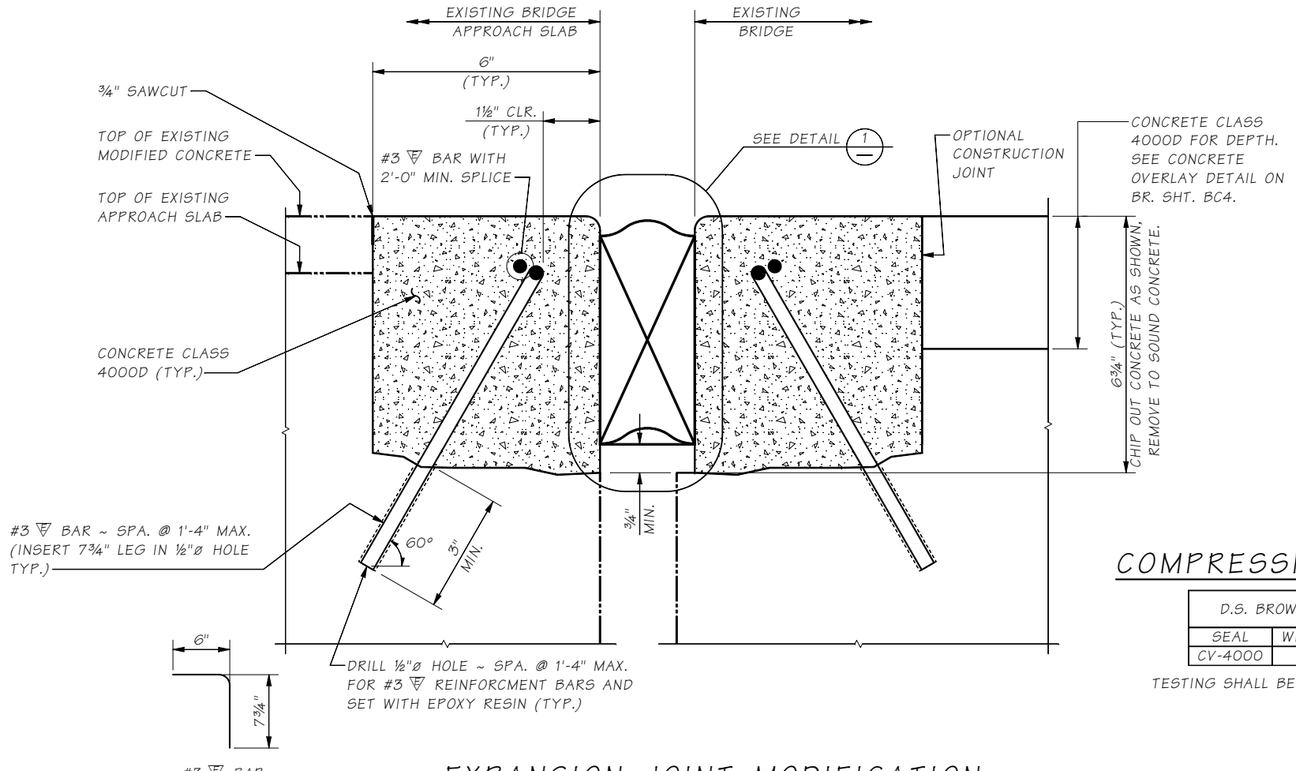
I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136N

INTERMEDIATE DIAPHRAGM OPENING DETAILS

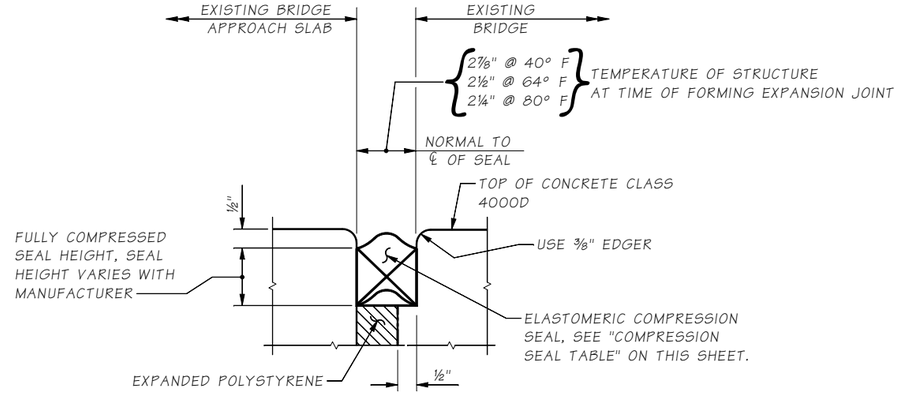
BRIDGE SHEET NO. BC8

SHEET 94 OF 108 SHEETS

Mon Mar 21 06:06:51 2022



EXPANSION JOINT MODIFICATION



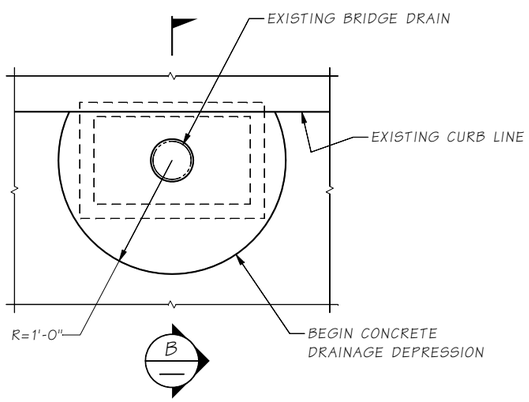
DETAIL 1

COMPRESSION SEAL DETAIL EXPANSION JOINT AT BACK OF PAVEMENT SEAT

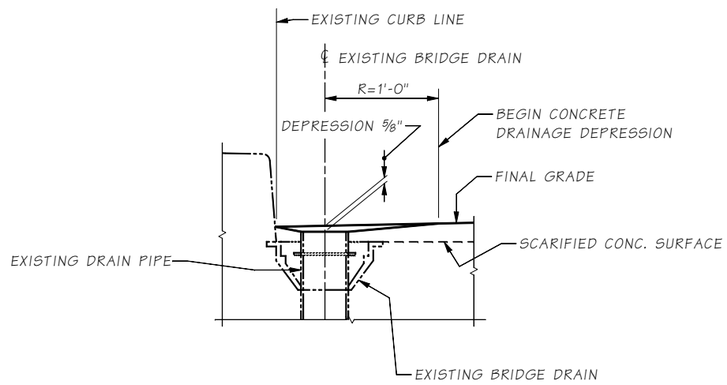
COMPRESSION SEAL TABLE

D.S. BROWN		WATSON BOWMAN ACME	
SEAL	WIDTH	SEAL	WIDTH
CV-4000	4"	WA-400	4"

TESTING SHALL BE PER ASTM D2628 PRIOR TO USE.



CONCRETE OVERLAY DEPRESSION AT EXISTING BRIDGE DRAIN



SECTION B

NOTES:

1. THE CONTRACTION SHALL TEMPORARILY BLOCK ALL BRIDGE DRAINS FROM BEGINNING TO END OF CONSTRUCTION.

SR 90 FILE NO. SHEET BC9

Bridge Design Engr.	Khaleghi, B		M:\PAVING\BR90-136N_I-90 OVER CLE ELUM RD. RR_ BRIDGE DECK REHAB_SCR\window files\APPROACH SLAB REPAIR.wnd				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Aldrich, BS						10	WASH.			
Designed By	Hsieh, JC	01/21					JOB NUMBER 22Y001				
Checked By	Lee, CS	10/21					CONTRACT NO.				
Detailed By	Bontemps, W	01/21									
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist			DATE	REVISION	BY	APP'D					

Mon Mar 21 06:06:52 2022

P.E. STAMP BOX: BRIAN S. ALDRICH, STATE OF WASHINGTON, 37834, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

BRIDGE AND STRUCTURES OFFICE

P.E. STAMP BOX: BIJAN KHALEGHI, STATE OF WASHINGTON, 37695, STRUCTURAL ENGINEER, PROFESSIONAL ENGINEER — SEE SHEET CT1 — DATE:

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
I-90 OVER CLE ELUM RD. RR BRIDGE NO. 90/136N

EXPANSION JOINT MODIFICATION DETAILS AND BRIDGE DRAIN

BRIDGE SHEET NO. BC9

SHEET 95 OF 108 SHEETS

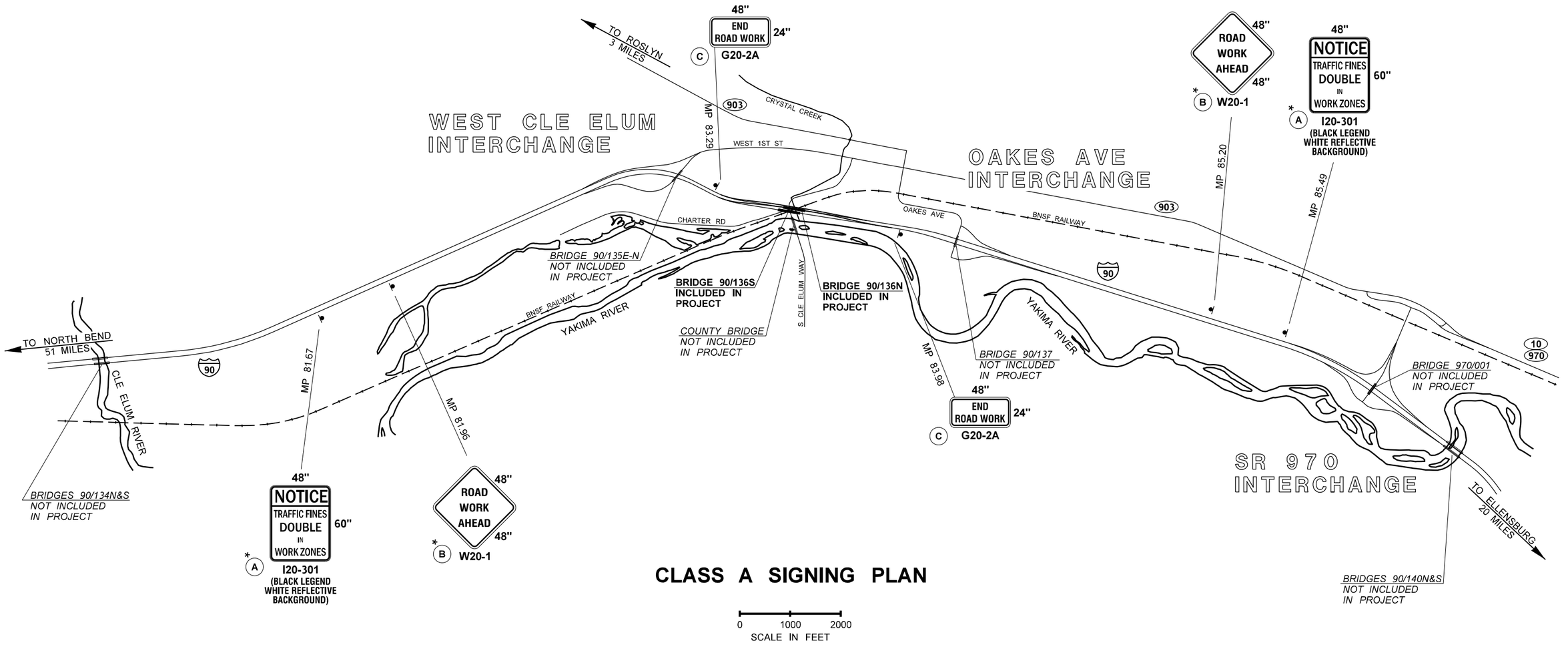
GENERAL NOTES

1. ALL SIGNS WILL BE STAKED BY THE ENGINEER.
2. ALL W-SERIES SIGNS SHALL HAVE AN ORANGE REFLECTIVE BACKGROUND UNLESS OTHERWISE NOTED.

* THESE SIGNS SHALL BE GATED.

** THE CLASS A SIGNS SHOWN ON SHEETS TC7, TC8, AND TC9 ARE PART OF THE CLASS A SIGN PLACEMENT SHOWN ON SHEET TC6. SHEETS TC7, TC8, AND TC9 DO NOT REPRESENT AN ADDITIONAL PLACEMENT OF SIGNS. ONLY FOUR CLASS A "ROAD WORK AHEAD " SIGNS ARE NEEDED ON THE PROJECT.

SIGN LETTER	SIGN CODE	SHEET REFERENCE **	SIGN AREA (S.F.)	REQUIRED QTY. (EACH)	TOTAL AREA (S.F.)	REMARKS
A	I20-301	CS1	20	4	80	TRAFFIC FINES DOUBLE
B	W20-1	CS1	16	4	64	ROAD WORK AHEAD
C	G20-2A	CS1	8	2	16	END ROAD WORK
D	W1-4BL	TC6	16	4	64	2 LANE SHIFT LEFT
E	W3-5	TC6	16	4	64	SPEED LIMIT 60 AHEAD
F	R2-1	TC6	20	4	80	SPEED LIMIT 60
G	W1-4BR	TC6	16	4	64	2 LANE SHIFT RIGHT
H	R2-1	TC6	20	2	40	SPEED LIMIT 70
I	R2-2	TC6	16	2	32	TRUCKS 60
J THRU O		BD1			66	SEE SHEET BD1 FOR DETAILS
				PROJECT TOTAL	570	



CLASS A SIGNING PLAN

0 1000 2000
SCALE IN FEET

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\410-WZTCPlan\XL5987_PS_CS.dgn				REGION NO.	STATE	FED.AID PROJ.NO.	Plot 1
TIME	9:25:46 AM				10	WASH	NHPP-0902(454)	PLAN REF NO CS1
DATE	3/25/2022				JOB NUMBER 22Y001			
PLOTTED BY	thomasb				CONTRACT NO.		LOCATION NO.	SHEET 96 OF 108 SHEETS
DESIGNED BY	S. SIGSWORTH							
ENTERED BY	C. HOLMAN							
CHECKED BY	B. THOMAS							
PROJ. ENGR.	B. HOOKER							
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY				

BOBBY E.S. HOOKER — STATE OF WASHINGTON — 16201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

CONSTRUCTION SIGNING PLAN

PCMS 1	
1	2
SLOW TRAFFIC AHEAD	NEXT # MILES
2.0 SEC	2.0 SEC

FIELD LOCATE AT LEAST 1/2 +/- MILE IN ADVANCE OF PCMS 2.

RELOCATE AS NEEDED TO REMAIN 1 +/- MILE IN ADVANCE OF QUEUE.

PCMS MAY BE TRUCK MOUNTED; IF SO, THE THREE TRANSVERSE DRUMS ARE OPTIONAL.

REMOVE WHEN QUEUE NO LONGER PRESENT.

= APPROXIMATE QUEUE LENGTH ROUNDED UP TO NEAREST MILE

LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.

PCMS 2	
1	2
LEFT LANE CLOSED	1 MILE AHEAD
2.0 SEC	2.0 SEC

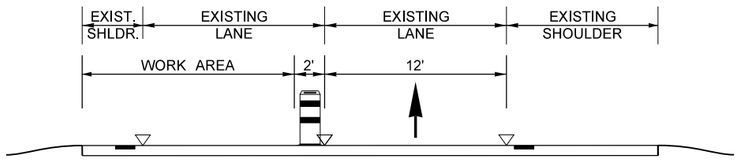
FIELD LOCATE 1/4 +/- MILE IN ADVANCE OF W20-1 SIGN.

LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	50-75 MPH	1500' +/-

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



SECTION A-A

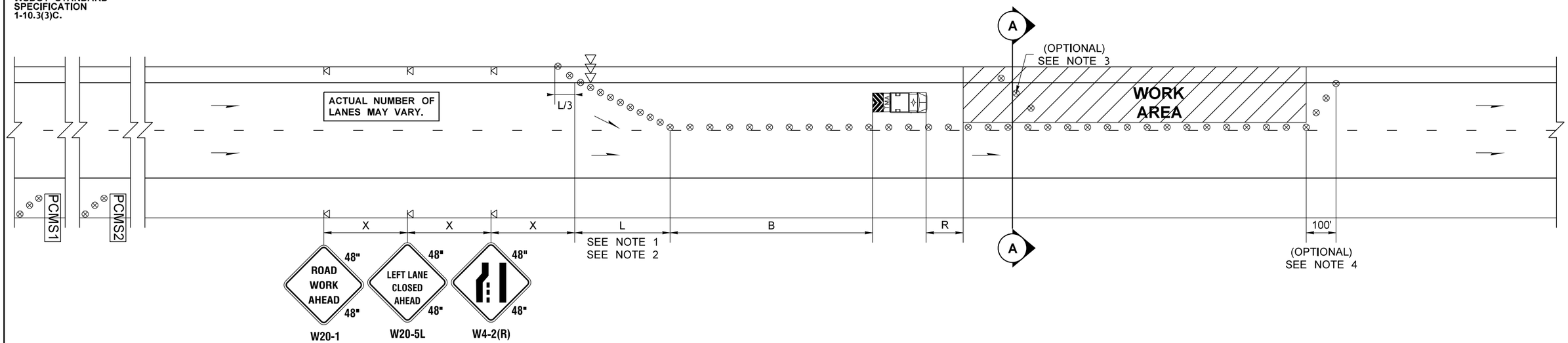
MINIMUM LANE CLOSURE TAPER LENGTH = L								
LANE WIDTH (feet)	SPEED (MPH)	50	55	60	65	70	75
12	L (feet)	600	660	720	780	840	900

MINIMUM SHOULDER CLOSURE TAPER LENGTH = L/3							
SHOULDER WIDTH (feet)	SPEED (MPH)	50	55	60	65	70	75
6	L/3 (feet)	120	120	120	160	160	160
10	L/3 (feet)	200	200	200	240	240	280

USE A MINIMUM 3 DEVICES FOR SHOULDER LESS THAN 6'.

MINIMUM LONGITUDINAL BUFFER SPACE = B						
SPEED (MPH)	50	55	60	65	70	75
LENGTH (feet)	425	495	570	645	730	820

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R			
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.		HOST VEHICLE WEIGHT > 22,000 lbs.	
50-55 MPH	60+ MPH	50-55 MPH	60+ MPH
123'	172'	100'	150'



LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

1. DISTANCE BETWEEN LANE CLOSURE TAPER AND ALL OPEN RAMPS SHALL BE 500' MINIMUM.
2. IF FEASIBLE, AVOID PLACING LANE CLOSURE TAPER WITHIN LIMITS OF HORIZONTAL CURVES.
3. PLACE TRANSVERSELY ACROSS CLOSURE AT A 45° ANGLE WITH 5' SPACING AT STRATEGIC LOCATIONS OR EVERY 1000' +/-.
4. REOPENING TAPER OPTIONAL TO ALLOW FOR CONSTRUCTION VEHICLES TO ACCELERATE STRAIGHT OUT OF WORK AREA INTO THE LEFT LANE.
5. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
6. THIS TRAFFIC CONTROL PLAN IS APPLICABLE TO SHORT-TERM AND INTERMEDIATE-TERM DURATION LANE CLOSURES OF 3 DAYS OR LESS.
7. SEE SPECIAL PROVISION "CONSTRUCTION UNDER TRAFFIC" FOR WORK HOUR PROVISIONS.

FREEWAY (2+ LANES): SINGLE LEFT LANE CLOSURE WITH NO LANE SHIFTS (EXISTING SPEED LIMIT MAINTAINED)

NOT TO SCALE

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\410-WZTCPlan\XL5987_PS_TC.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	6:42:06 AM				10	WASH	NHPP-0902(454)
DATE	3/22/2022				JOB NUMBER		
PLOTTED BY	McLaneA				22Y001		
DESIGNED BY	HAAPALA & LINTZ				CONTRACT NO.		LOCATION NO.
ENTERED BY	F. LINTZ						
CHECKED BY	S. HAAPALA						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

TRAFFIC CONTROL PLAN

Plot 1
PLAN REF NO TC1
SHEET 97 OF 108 SHEETS

PCMS 1	
1	2
SLOW TRAFFIC AHEAD	NEXT # MILES
2.0 SEC	2.0 SEC

FIELD LOCATE AT LEAST 1/2 +/- MILE IN ADVANCE OF PCMS 2.

RELOCATE AS NEEDED TO REMAIN 1 +/- MILE IN ADVANCE OF QUEUE.

PCMS MAY BE TRUCK MOUNTED; IF SO, THE THREE TRANSVERSE DRUMS ARE OPTIONAL.

REMOVE WHEN QUEUE NO LONGER PRESENT.

= APPROXIMATE QUEUE LENGTH ROUNDED UP TO NEAREST MILE

LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.

PCMS 2	
1	2
RIGHT LANE CLOSED	1 MILE AHEAD
2.0 SEC	2.0 SEC

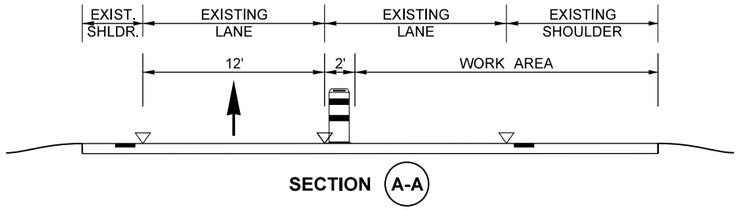
FIELD LOCATE 1/4 +/- MILE IN ADVANCE OF W20-1 SIGN.

LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	50-75 MPH	1500' +/-

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

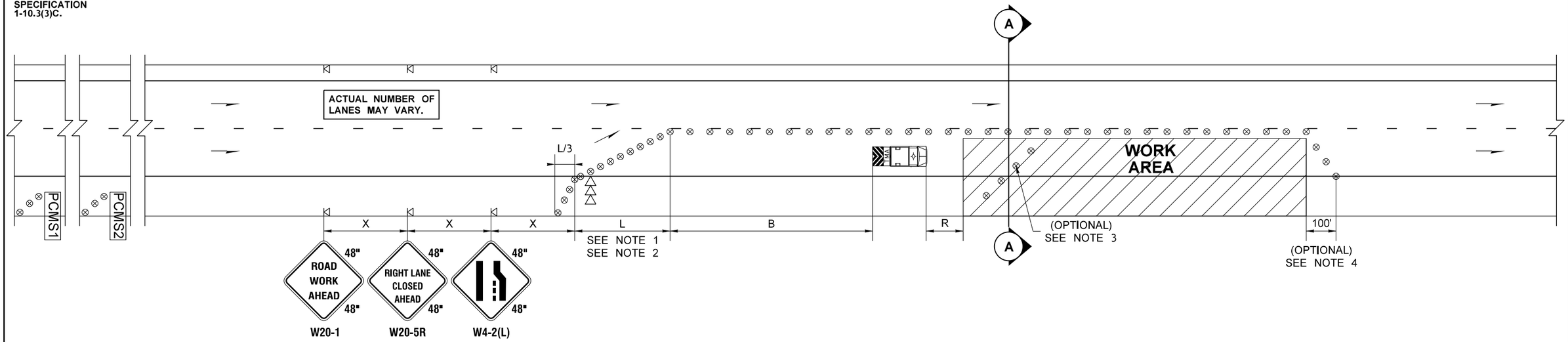


SECTION A-A

MINIMUM LANE CLOSURE TAPER LENGTH = L							
LANE WIDTH (feet)	SPEED (MPH)	50	55	60	65	70	75
12	L (feet)	600	660	720	780	840	900
MINIMUM SHOULDER CLOSURE TAPER LENGTH = L/3							
SHOULDER WIDTH (feet)	SPEED (MPH)	50	55	60	65	70	75
6	L/3 (feet)	120	120	120	160	160	160
10	L/3 (feet)	200	200	200	240	240	280
USE A MINIMUM 3 DEVICES FOR SHOULDER LESS THAN 6'.							

MINIMUM LONGITUDINAL BUFFER SPACE = B						
SPEED (MPH)	50	55	60	65	70	75
LENGTH (feet)	425	495	570	645	730	820

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R			
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.		HOST VEHICLE WEIGHT > 22,000 lbs.	
50-55 MPH	60+ MPH	50-55 MPH	60+ MPH
123'	172'	100'	150'



LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

1. DISTANCE BETWEEN LANE CLOSURE TAPER AND ALL OPEN RAMPS SHALL BE 500' MINIMUM.
2. IF FEASIBLE, AVOID PLACING LANE CLOSURE TAPER WITHIN LIMITS OF HORIZONTAL CURVES.
3. PLACE TRANSVERSELY ACROSS CLOSURE AT A 45° ANGLE WITH 5' SPACING AT STRATEGIC LOCATIONS OR EVERY 1000' +/-.
4. REOPENING TAPER OPTIONAL TO ALLOW FOR CONSTRUCTION VEHICLES TO ACCELERATE STRAIGHT OUT OF WORK AREA INTO THE RIGHT LANE.
5. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
6. THIS TRAFFIC CONTROL PLAN IS APPLICABLE TO SHORT-TERM AND INTERMEDIATE-TERM DURATION LANE CLOSURES OF 3 DAYS OR LESS.
7. SEE SPECIAL PROVISION "CONSTRUCTION UNDER TRAFFIC" FOR WORK HOUR PROVISIONS.

FREEWAY (2+ LANES): SINGLE RIGHT LANE CLOSURE WITH NO LANE SHIFTS (EXISTING SPEED LIMIT MAINTAINED)

NOT TO SCALE

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\410-WZTCPlan\XL5987_PS_TC.dgn			
TIME	6:42:43 AM			
DATE	3/22/2022			
PLOTTED BY	McLaneA			
DESIGNED BY	HAAPALA & LINTZ			
ENTERED BY	F. LINTZ			
CHECKED BY	S. HAAPALA			
PROJ. ENGR.	B. HOOKER			
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 22Y001

CONTRACT NO.

FED.AID PROJ.NO. NHPP-0902(454)

LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

TRAFFIC CONTROL PLAN

Plot 2

PLAN REF NO TC2

SHEET 98 OF 108 SHEETS

PCMS 1	
1	2
SLOW TRAFFIC AHEAD	NEXT # MILES
2.0 SEC	2.0 SEC

FIELD LOCATE AT LEAST 1/2 +/- MILE IN ADVANCE OF PCMS 2.

RELOCATE AS NEEDED TO REMAIN 1 +/- MILE IN ADVANCE OF QUEUE.

PCMS MAY BE TRUCK MOUNTED; IF SO, THE THREE TRANSVERSE DRUMS ARE OPTIONAL.

REMOVE WHEN QUEUE NO LONGER PRESENT.

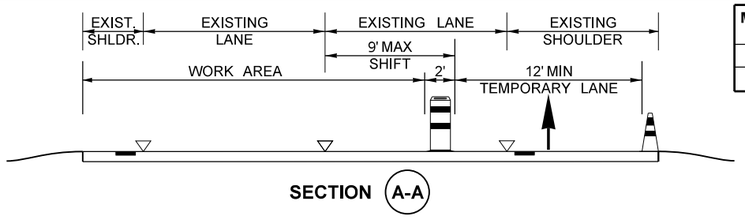
= APPROXIMATE QUEUE LENGTH ROUNDED UP TO NEAREST MILE

LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.

PCMS 2	
1	2
ROAD NARROWS	SHOULDER DRIVING AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE 1/4 +/- MILE IN ADVANCE OF W20-1 SIGN.

LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.

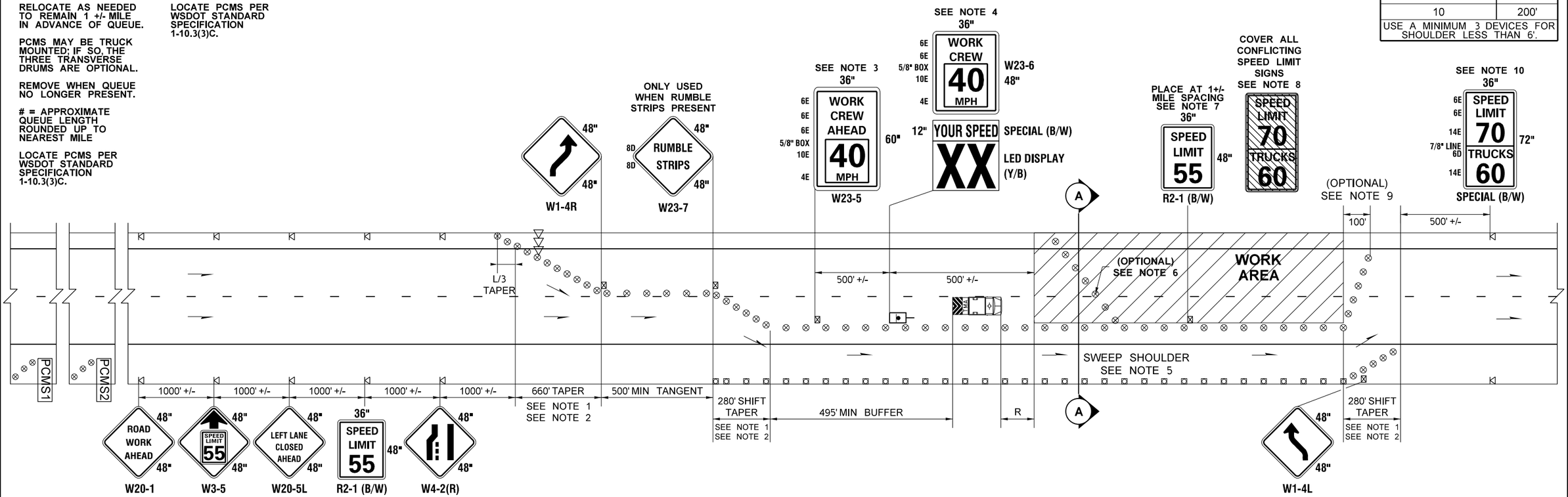


SECTION (A-A)

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
55	40	80

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
	55 MPH			55 MPH	
	123'			100'	

MINIMUM SHOULDER CLOSURE TAPER LENGTH = L/3	
SHOULDER WIDTH (feet)	55 MPH
6	120'
10	200'
USE A MINIMUM 3 DEVICES FOR SHOULDER LESS THAN 6'.	



LEGEND

- TEMPORARY SIGN LOCATION
- TEMPORARY SIGN LOCATION (5' MIN HEIGHT)
- 28" REFLECTIVE TRAFFIC CONE
- TRAFFIC SAFETY DRUM
- RADAR SPEED DISPLAY SIGN
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

1. DISTANCE BETWEEN LANE CLOSURE/SHIFT TAPERS AND ALL OPEN RAMPS SHALL BE 500' MINIMUM.
2. IF FEASIBLE, AVOID PLACING LANE CLOSURE/SHIFT TAPERS WITHIN LIMITS OF HORIZONTAL CURVES.
3. RELOCATE TO REMAIN 1000' +/- PRIOR TO WORK AREA. AS ORDERED BY THE ENGINEER, ADDITIONAL SIGN MAY BE USED 1000' +/- PRIOR TO EACH WORK CREW WITHIN WORK AREA.
4. RELOCATE TO REMAIN 500' +/- PRIOR TO WORK AREA. AS ORDERED BY THE ENGINEER, ADDITIONAL SPEED RADAR DISPLAY SIGN MAY BE USED 500' +/- PRIOR TO EACH WORK CREW WITHIN WORK AREA.
5. PRIOR TO SHIFTING TRAFFIC, RIGHT SHOULDER AND RIGHT RAMP GORES SHALL BE SWEPT THROUGHOUT LIMITS OF TRAFFIC SHIFT.
6. PLACE TRANSVERSELY ACROSS CLOSURE AT A 45° ANGLE WITH 5' SPACING AT STRATEGIC LOCATIONS OR EVERY 1000' +/-.
7. PLACE ADDITIONAL R2-1 SIGNS POSITIONED AS NOT TO CONFLICT WITH THE ADVISORY SPEED SIGNAGE.
8. ALL SPEED LIMIT SIGNS CONFLICTING WITH WORK ZONE SPEED LIMIT SHALL BE COVERED PER STANDARD SPECIFICATIONS 8-21.3(3).
9. REOPENING TAPER OPTIONAL TO ALLOW FOR CONSTRUCTION VEHICLES TO ACCELERATE STRAIGHT OUT OF WORK AREA INTO THE LEFT LANE.
10. OPTIONAL IF PERMANENT SPEED LIMIT SIGNS ARE WITHIN 1500' +/- OF THE REOPENING TAPER.
11. FOR ROADWAY WIDTH RESTRICTIONS OF LESS THAN 16 FEET, CONTACT WSDOT COMMERCIAL VEHICLE SERVICES IN ADVANCE FOR OVERSIZE FREIGHT WIDTH RESTRICTIONS.
12. WHEN TRAFFIC SHIFTED ONTO PAVED SHOULDERS OR ACROSS GORES, VERIFY CROSS-SLOPE IS TRAVERSABLE.
13. IF ROADWAY NARROWS (AT BRIDGES, ETC.) WHEN TRAFFIC SHIFTED ONTO PAVED SHOULDER, MAINTAIN 12' MINIMUM LANE WIDTH BY SHIFTING OPEN LANE AT 55:1 TAPER AS NECESSARY WITH APPROPRIATE W1-4L AND W1-4R SIGNAGE PLACED 500' +/- PRIOR.
14. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
15. THIS TRAFFIC CONTROL PLAN IS APPLICABLE TO SHORT-TERM AND INTERMEDIATE-TERM DURATION LANE CLOSURES OF 3 DAYS OR LESS.
16. SEE SPECIAL PROVISION "CONSTRUCTION UNDER TRAFFIC" FOR WORK HOUR PROVISIONS.

FREEWAY (2 LANES): SINGLE LEFT LANE CLOSURE WITH 9' MAX SHIFT ONTO RIGHT SHOULDER (70 MPH TO 55 MPH VARIABLE WORK ZONE SPEED LIMIT REDUCTION, 40 MPH ADVISORY SPEED)

NOT TO SCALE

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\410-WZTCPlan\XL5987_PS_TC.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	6:43:07 AM				10	WASH	NHPP-0902(454)
DATE	3/22/2022				JOB NUMBER		
PLOTTED BY	McLaneA				22Y001		
DESIGNED BY	HAAPALA & LINTZ				CONTRACT NO.		LOCATION NO.
ENTERED BY	F. LINTZ						
CHECKED BY	S. HAAPALA						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

P.E. STAMP BOX — DATE

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Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

TRAFFIC CONTROL PLAN

Plot 3

PLAN REF NO TC3

SHEET 99 OF 108 SHEETS

PCMS 1	
1	2
SLOW TRAFFIC AHEAD	NEXT # MILES
2.0 SEC	2.0 SEC

FIELD LOCATE AT LEAST 1/2 +/- MILE IN ADVANCE OF PCMS 2.

RELOCATE AS NEEDED TO REMAIN 1 +/- MILE IN ADVANCE OF QUEUE.

PCMS MAY BE TRUCK MOUNTED; IF SO, THE THREE TRANSVERSE DRUMS ARE OPTIONAL.

REMOVE WHEN QUEUE NO LONGER PRESENT.

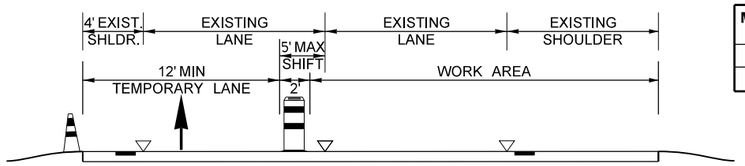
= APPROXIMATE QUEUE LENGTH ROUNDED UP TO NEAREST MILE

LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.

PCMS 2	
1	2
ROAD NARROWS	SHOULDER DRIVING AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE 1/4 +/- MILE IN ADVANCE OF W20-1 SIGN.

LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.

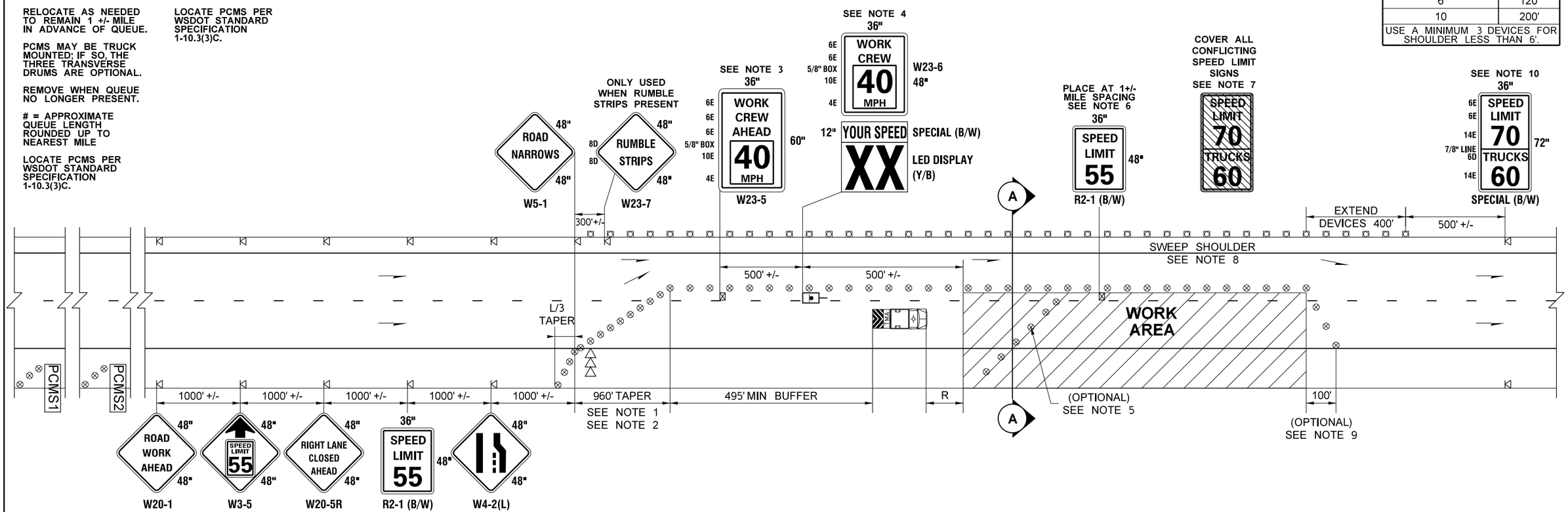


SECTION A-A

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
55	40	80

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
	55 MPH			55 MPH	
	123'			100'	

MINIMUM SHOULDER CLOSURE TAPER LENGTH = L/3	
SHOULDER WIDTH (feet)	55 MPH
6	120'
10	200'
USE A MINIMUM 3 DEVICES FOR SHOULDER LESS THAN 6'.	



LEGEND

- TEMPORARY SIGN LOCATION
- TEMPORARY SIGN LOCATION (5' MIN HEIGHT)
- 28" REFLECTIVE TRAFFIC CONE
- TRAFFIC SAFETY DRUM
- RADAR SPEED DISPLAY SIGN
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

1. DISTANCE BETWEEN LANE CLOSURE/SHIFT TAPERS AND ALL OPEN RAMPS SHALL BE 500' MINIMUM.
2. IF FEASIBLE, AVOID PLACING LANE CLOSURE/SHIFT TAPERS WITHIN LIMITS OF HORIZONTAL CURVES.
3. RELOCATE TO REMAIN 1000' +/- PRIOR TO WORK AREA. AS ORDERED BY THE ENGINEER, ADDITIONAL SIGN MAY BE USED 1000' +/- PRIOR TO EACH WORK CREW WITHIN WORK AREA.
4. RELOCATE TO REMAIN 500' +/- PRIOR TO WORK AREA. AS ORDERED BY THE ENGINEER, ADDITIONAL SPEED RADAR DISPLAY SIGN MAY BE USED 500' +/- PRIOR TO EACH WORK CREW WITHIN WORK AREA.
5. PLACE TRANSVERSELY ACROSS CLOSURE AT A 45° ANGLE WITH 5' SPACING AT STRATEGIC LOCATIONS OR EVERY 1000' +/-.
6. PLACE ADDITIONAL R2-1 SIGNS POSITIONED AS NOT TO CONFLICT WITH THE ADVISORY SPEED SIGNAGE.
7. ALL SPEED LIMIT SIGNS CONFLICTING WITH WORK ZONE SPEED LIMIT SHALL BE COVERED PER STANDARD SPECIFICATIONS 8-21.3(3).
8. PRIOR TO SHIFTING TRAFFIC, LEFT SHOULDER AND LEFT RAMP GORES SHALL BE SWEPT THROUGHOUT LIMITS OF TRAFFIC SHIFT.
9. REOPENING TAPER OPTIONAL TO ALLOW FOR CONSTRUCTION VEHICLES TO ACCELERATE STRAIGHT OUT OF WORK AREA INTO THE RIGHT LANE.
10. OPTIONAL IF PERMANENT SPEED LIMIT SIGNS ARE WITHIN 1500' +/- OF THE REOPENING TAPER.
11. FOR ROADWAY WIDTH RESTRICTIONS OF LESS THAN 16 FEET, CONTACT WSDOT COMMERCIAL VEHICLE SERVICES IN ADVANCE FOR OVERSIZE FREIGHT WIDTH RESTRICTIONS.
12. WHEN TRAFFIC SHIFTED ONTO PAVED SHOULDERS OR ACROSS GORES, VERIFY CROSS-SLOPE IS TRAVERSABLE.
13. IF ROADWAY NARROWS (AT BRIDGES, ETC.) WHEN TRAFFIC SHIFTED ONTO PAVED SHOULDER, MAINTAIN 12' MINIMUM LANE WIDTH BY SHIFTING OPEN LANE AT 55:1 TAPER AS NECESSARY WITH APPROPRIATE W1-4L AND W1-4R SIGNAGE PLACED 500' +/- PRIOR.
14. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
15. THIS TRAFFIC CONTROL PLAN IS APPLICABLE TO SHORT-TERM AND INTERMEDIATE-TERM DURATION LANE CLOSURES OF 3 DAYS OR LESS.
16. SEE SPECIAL PROVISION "CONSTRUCTION UNDER TRAFFIC" FOR WORK HOUR PROVISIONS.

FREEWAY (2 LANES): SINGLE RIGHT LANE CLOSURE WITH 5' MAX SHIFT ONTO LEFT SHOULDER (70 MPH TO 55 MPH VARIABLE WORK ZONE SPEED LIMIT REDUCTION, 40 MPH ADVISORY SPEED)

NOT TO SCALE

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\410-WZTCPlan\XL5987_PS_TC.dgn				REGION NO.	STATE	FED.AID PROJ.NO.	Plot 4
TIME	6:43:29 AM				10	WASH	NHPP-0902(454)	PLAN REF NO TC4
DATE	3/22/2022				JOB NUMBER 22Y001			
PLOTTED BY	McLaneA				CONTRACT NO.		LOCATION NO.	SHEET 100 OF 108 SHEETS
DESIGNED BY	HAAPALA & LINTZ							
ENTERED BY	F. LINTZ							
CHECKED BY	S. HAAPALA							
PROJ. ENGR.	B. HOOKER							
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY				

DATE P.E. STAMP BOX

DATE P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

TRAFFIC CONTROL PLAN

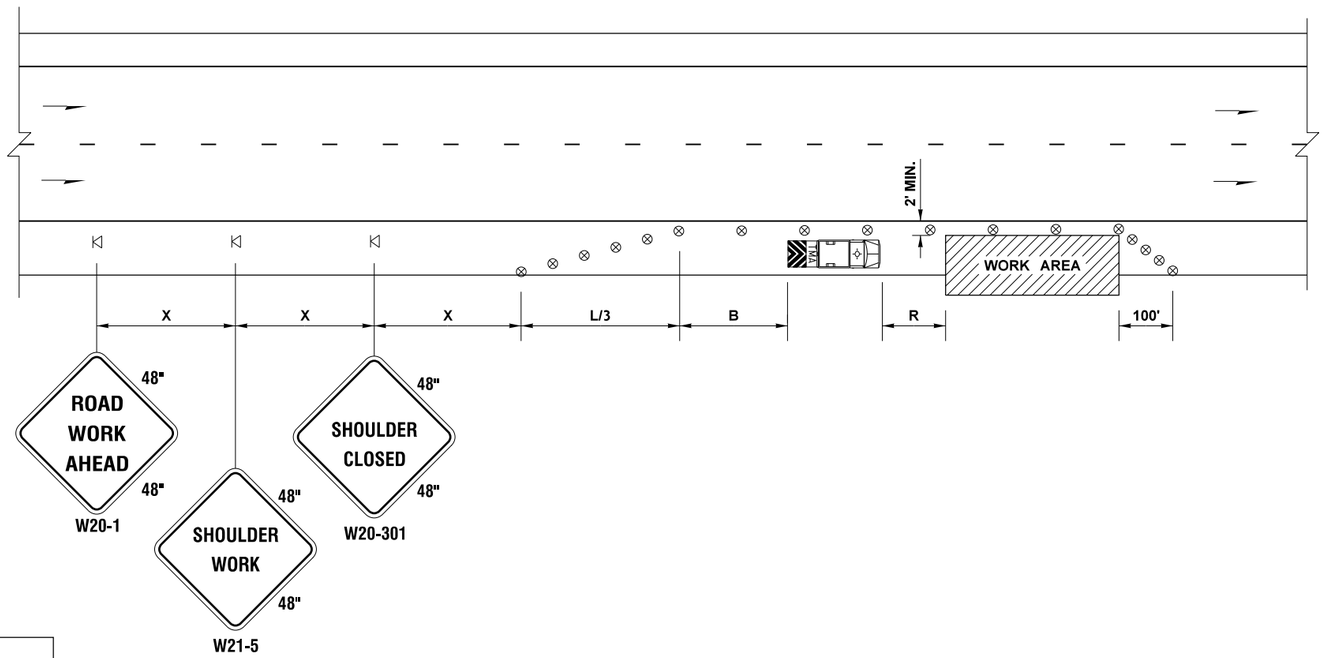
MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	-	-	-	-	120	130	150	160	170	190
10'	-	-	-	-	150	170	190	200	220	240
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.										

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.		

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R					
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.		
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH
100'	123'	172'	74'	100'	150'



LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- TRANSPORTABLE ATTENUATOR

SHOULDER CLOSURE - HIGH SPEED

NOT TO SCALE

NOTES

1. NO ENCROACHMENT IN TRAVELED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
2. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT) O.C.
3. ALL SIGNS ARE BLACK ON ORANGE.

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\410-WZTCPlan\XL5987_PS_TC.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	11:24:12 AM				10	WASH	NHPP-0902(454)
DATE	3/17/2022				JOB NUMBER		
PLOTTED BY	johnCra				22Y001		
DESIGNED BY	S. SIGSWORTH				CONTRACT NO.		LOCATION NO.
ENTERED BY	S. SIGSWORTH						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

TRAFFIC CONTROL PLAN

Plot 5

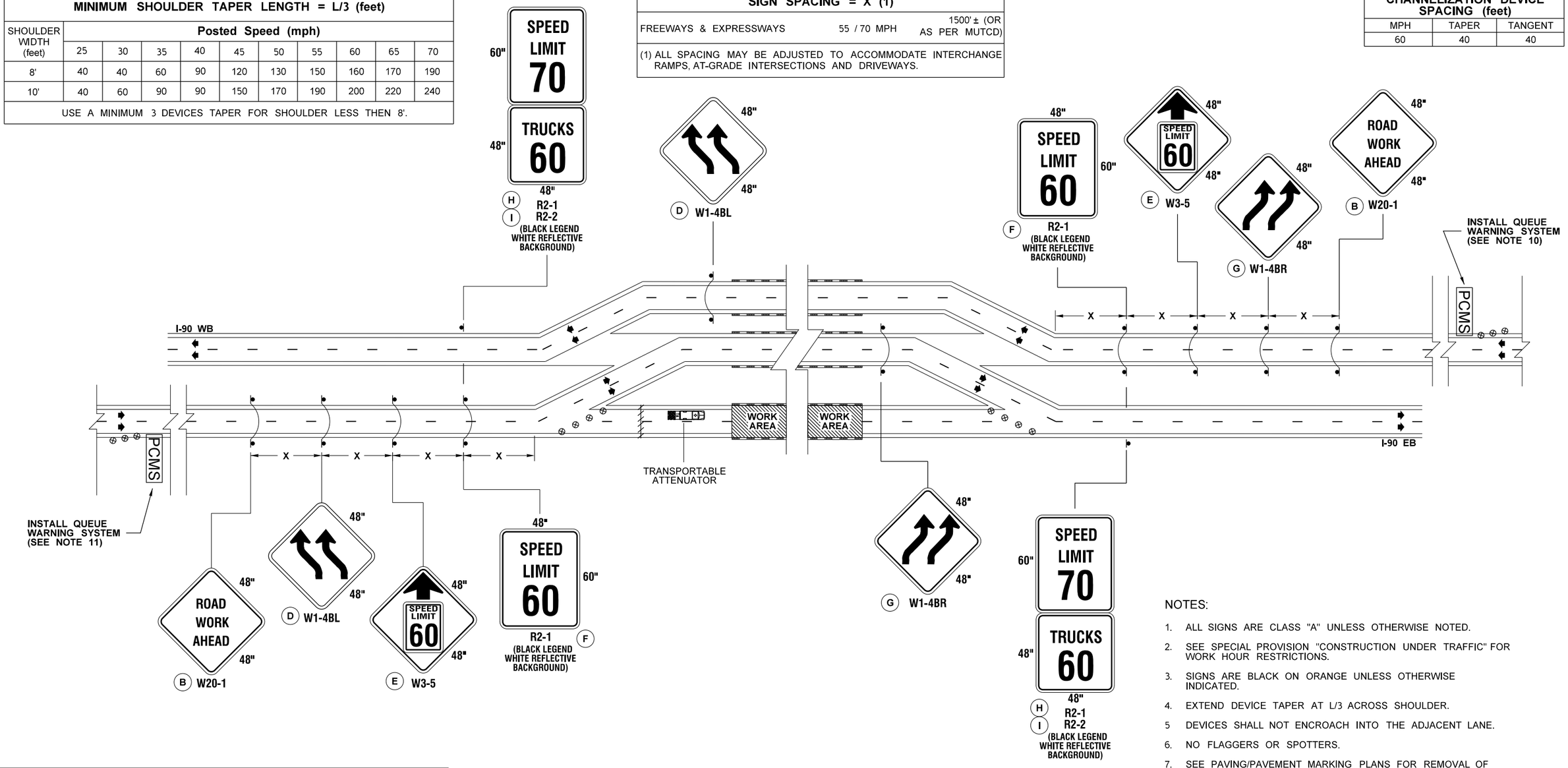
PLAN REF NO
TC5

SHEET 101 OF 108 SHEETS

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.										

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ± (OR AS PER MUTCD)
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.		

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
60	40	40



LEGEND

- SIGN LOCATION
- TRAFFIC SAFETY DRUM
- PORTABLE CHANGEABLE MESSAGE SIGN
- TYPE 3 BARRICADE
- TEMPORARY IMPACT ATTENUATOR
- TEMPORARY BARRIER
- BRIDGE BARRIER

EASTBOUND AND WESTBOUND LANE SHIFT

BRIDGE 90/136S DECK WORK

NOT TO SCALE

NOTES:

1. ALL SIGNS ARE CLASS "A" UNLESS OTHERWISE NOTED.
2. SEE SPECIAL PROVISION "CONSTRUCTION UNDER TRAFFIC" FOR WORK HOUR RESTRICTIONS.
3. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
4. EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
5. DEVICES SHALL NOT ENCROACH INTO THE ADJACENT LANE.
6. NO FLAGGERS OR SPOTTERS.
7. SEE PAVING/PAVEMENT MARKING PLANS FOR REMOVAL OF EXISTING DELINEATION.
8. SPEED LIMIT SIGNS ON WESTBOUND MUST LINE UP WITH SPEED LIMIT SIGNS ON EASTBOUND.
9. LOCATIONS FOR ALL I20-301, W20-1, AND G20-2A (TRAFFIC FINES DOUBLE, ROAD WORK AHEAD, AND END ROAD WORK) CLASS A SIGNS ARE SHOWN ON SHEET CS1.
10. SEE SHEET TC9 FOR WESTBOUND QUEUE WARNING SYSTEM DETAILS.
11. SEE SHEET TC8 FOR EASTBOUND QUEUE WARNING SYSTEM DETAILS.

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\410-WZTCPlan\XL5987_PS_TC.dgn			
TIME	11:24:20 AM			
DATE	3/17/2022			
PLOTTED BY	johnCra			
DESIGNED BY	S. SIGSWORTH			
ENTERED BY	S. SIGSWORTH			
CHECKED BY	B. THOMAS			
PROJ. ENGR.	B. HOOKER			
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 22Y001
CONTRACT NO.

FED.AID PROJ.NO. NHPP-0902(454)
LOCATION NO.

P.E. STAMP BOX — DATE

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Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

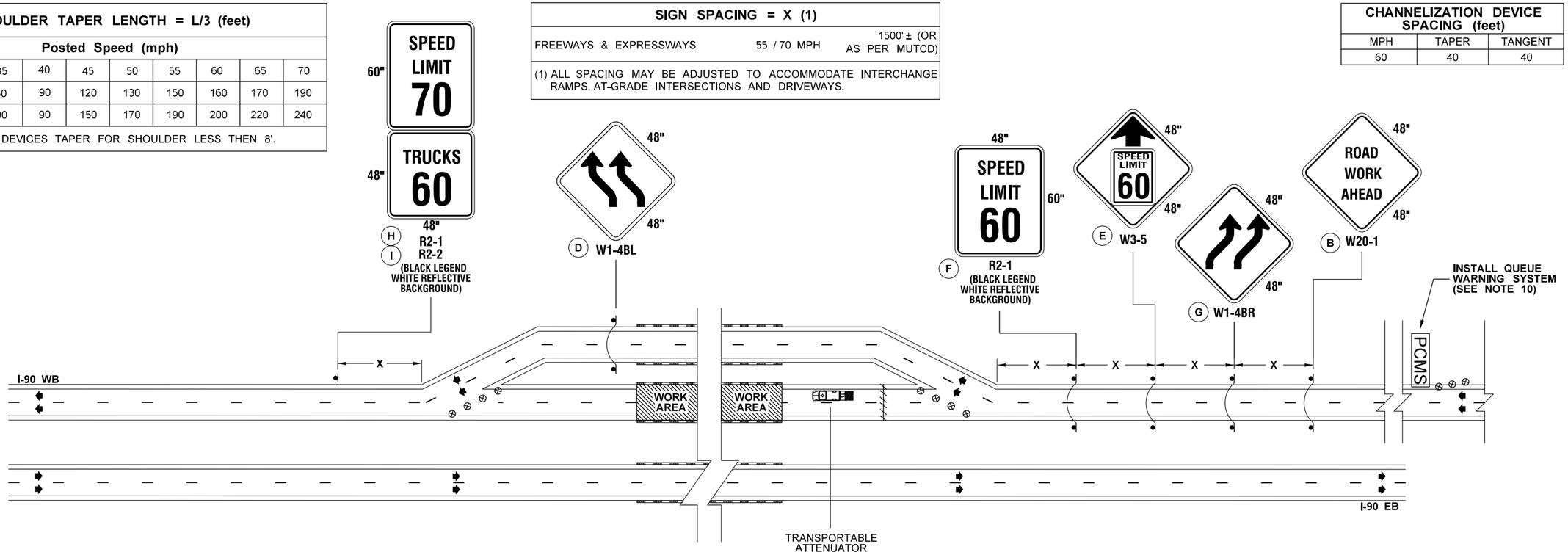
TRAFFIC CONTROL PLAN

Plot 6
PLAN REF NO TC6
SHEET 102 OF 108 SHEETS

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.										

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ± (OR AS PER MUTCD)
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.		

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
60	40	40



LEGEND

	SIGN LOCATION		
⊗	TRAFFIC SAFETY DRUM		TEMPORARY IMPACT ATTENUATOR
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN		TEMPORARY BARRIER
	TYPE 3 BARRICADE		BRIDGE BARRIER

WESTBOUND ONLY LANE SHIFT

BRIDGE 90/136N DECK WORK

NOT TO SCALE

NOTES:

1. ALL SIGNS ARE CLASS "A" UNLESS OTHERWISE NOTED.
2. SEE SPECIAL PROVISION "CONSTRUCTION UNDER TRAFFIC" FOR WORK HOUR RESTRICTIONS.
3. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
4. EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
5. DEVICES SHALL NOT ENCROACH INTO THE ADJACENT LANE.
6. NO FLAGGERS OR SPOTTERS.
7. SEE PAVING/PAVEMENT MARKING PLANS FOR REMOVAL OF EXISTING DELINEATION.
8. SPEED LIMIT SIGNS ON WESTBOUND MUST LINE UP WITH SPEED LIMIT SIGNS ON EASTBOUND.
9. LOCATIONS FOR ALL I20-301, W20-1, AND G20-2A (TRAFFIC FINES DOUBLE, ROAD WORK AHEAD, AND END ROAD WORK) CLASS A SIGNS ARE SHOWN ON SHEET CS1.
10. SEE SHEET TC9 FOR WESTBOUND QUEUE WARNING SYSTEM DETAILS.

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\410-WZTCPlan\XL5987_PS_TC.dgn			
TIME	11:24:29 AM			
DATE	3/17/2022			
PLOTTED BY	johnCra			
DESIGNED BY	S. SIGSWORTH			
ENTERED BY	S. SIGSWORTH			
CHECKED BY	B. THOMAS			
PROJ. ENGR.	B. HOOKER			
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 22Y001
CONTRACT NO.
FED.AID PROJ.NO. NHPP-0902(454)
LOCATION NO.

P.E. STAMP BOX — DATE
P.E. STAMP BOX — DATE

Washington State Department of Transportation

I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION
TRAFFIC CONTROL PLAN

Plot 7
PLAN REF NO TC7
SHEET 103 OF 108 SHEETS

QUEUE WARNING SYSTEM MESSAGES

TRAFFIC SENSORS		PCMS 2		PCMS 1	
B	A	1	2	1	2
TRIGGER SPEED		2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC
35+ MPH	35+ MPH	DETOUR AHEAD	3 MILES AHEAD	ROADWAY NARROWS AHEAD	STAY IN LANE
35+ MPH	< 35 MPH	LANES SHIFT 3 MILES	ROADWAY NARROWS	SLOW OR STOPPED TRAFFIC	NEXT 1.5 MILES
< 35 MPH	< 35 MPH	SLOW OR STOPPED TRAFFIC	NEXT 3 MILES	STAY IN LANE	LANES SHIFT LEFT

SEE QUEUE WARNING SYSTEM SPECIAL PROVISION OR RFP FOR DETAILS.

LOCATE PCMSs PER STD. SPEC 1-10.3(3)C. PCMS MAY BE PLACED ON OPPOSITE SHOULDER WHEN NEEDED, BUT AVOID RAMP GORES. WHEN PCMSs OR TRAFFIC SENSORS PLACED BEHIND BARRIER/GUARDRAIL OR WITHIN CLOSED LANE, 3 TRANSVERSE TRAFFIC DRUMS ARE NOT REQUIRED.

ADJUST QWS COMPONENTS AS NEEDED TO AVOID CONFLICTS WITH TRAFFIC CONTROL DEVICES, NARROW SHOULDERS, RAMPS, OR TO MAINTAIN VISIBILITY OF SEQUENTIAL ARROW SIGN.

IN THE EVENT OF A SYSTEM FAILURE, SEE SPECIAL PROVISIONS OR RFP "QUEUE WARNING SYSTEM FAILURE PROTOCOL".

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)

SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.										

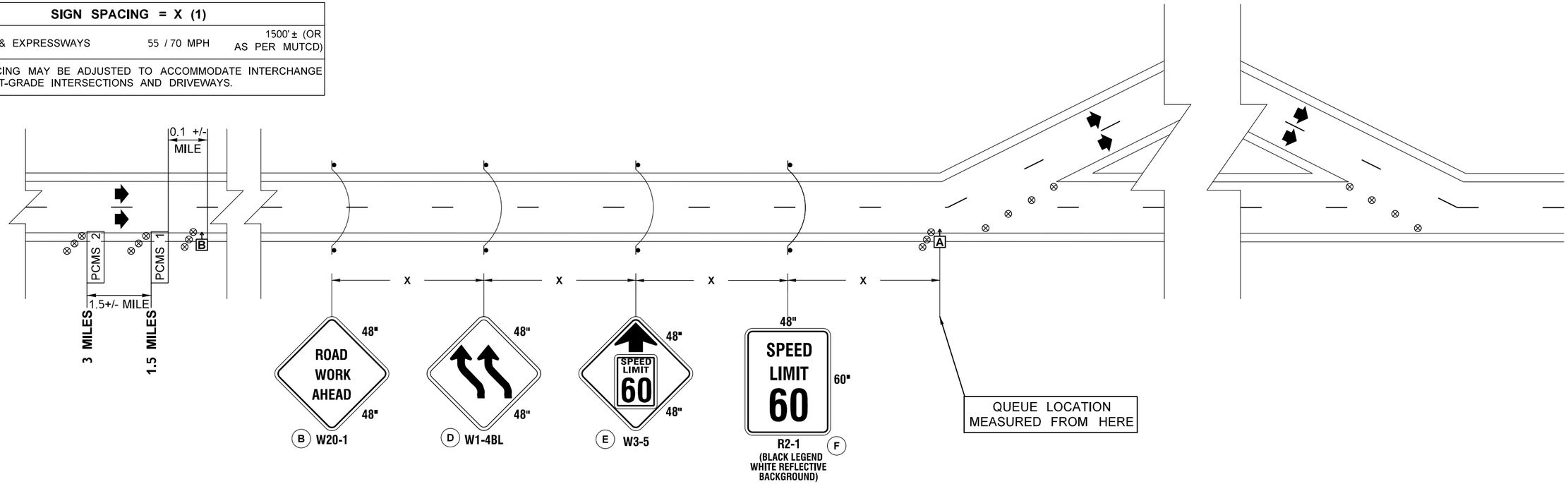
CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
60	40	40

SIGN SPACING = X (1)

FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ± (OR AS PER MUTCD)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.



FREEWAY (2 LANES): QUEUE WARNING SYSTEM FOR EASTBOUND LANE SHIFT

NOTES:

1. THIS QUEUE WARNING SYSTEM PLAN IS USED IN CONJUNCTION WITH A 2-LANE FREEWAY LANE SHIFT PLAN.
2. IF FEASIBLE, AVOID PLACING LANE CLOSURE OR LANE SHIFT TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL CURVES.
3. CONTACT WSDOT COMMERCIAL VEHICLE SERVICES AT LEAST 7 DAYS IN ADVANCE OF ROADWAY WIDTH RESTRICTIONS.
4. COVER ALL CONFLICTING SIGNAGE PER STANDARD SPEC 8-21.3.
5. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
6. **BICYCLES PROHIBITED THROUGH WORK ZONE**; CONSIDER PROVIDING DETOUR, ALTERNATIVE ROUTE, OR SHUTTLE IN HIGH-USE LOCATIONS PERMITTING PERMANENT BICYCLE ACCESS.

LEGEND

- SIGN LOCATION
- TRAFFIC SAFETY DRUM
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- # — QWS TRAFFIC SENSOR

NOT TO SCALE

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\410-WZTCPlan\XL5987_PS_TC.dgn						
TIME	6:43:53 AM						
DATE	3/22/2022						
PLOTTED BY	McLaneA						
DESIGNED BY	S. SIGSWORTH						
ENTERED BY	J. RICHARDSON						
CHECKED BY	B. THOMAS						
PROJ. ENGR.	B. HOOKER						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

REGION NO. 10 | STATE WASH | JOB NUMBER 22Y001 | CONTRACT NO. | LOCATION NO.

FED.AID PROJ.NO. NHPP-0902(454)

P.E. STAMP BOX — DATE

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I-90
S CLE ELUM RD BRIDGES - DECK REHABILITATION

TRAFFIC CONTROL PLAN

Plot 8

PLAN REF NO TC8

SHEET 104 OF 108 SHEETS

QUEUE WARNING SYSTEM MESSAGES					
TRAFFIC SENSORS		PCMS 2		PCMS 1	
B	A	1	2	1	2
TRIGGER SPEED		2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC
35+ MPH	35+ MPH	DETOUR AHEAD	3 MILES AHEAD	ROADWAY NARROWS AHEAD	STAY IN LANE
35+ MPH	< 35 MPH	LANES SHIFT 3 MILES	ROADWAY NARROWS	SLOW OR STOPPED TRAFFIC	NEXT 1.5 MILES
< 35 MPH	< 35 MPH	SLOW OR STOPPED TRAFFIC	NEXT 3 MILES	STAY IN LANE	LANES SHIFT RIGHT

SEE QUEUE WARNING SYSTEM SPECIAL PROVISION OR RFP FOR DETAILS.

LOCATE PCMSs PER STD. SPEC 1-10.3(3)C. PCMS MAY BE PLACED ON OPPOSITE SHOULDER WHEN NEEDED, BUT AVOID RAMP GORES. WHEN PCMSs OR TRAFFIC SENSORS PLACED BEHIND BARRIER/GUARDRAIL OR WITHIN CLOSED LANE, 3 TRANSVERSE TRAFFIC DRUMS ARE NOT REQUIRED.

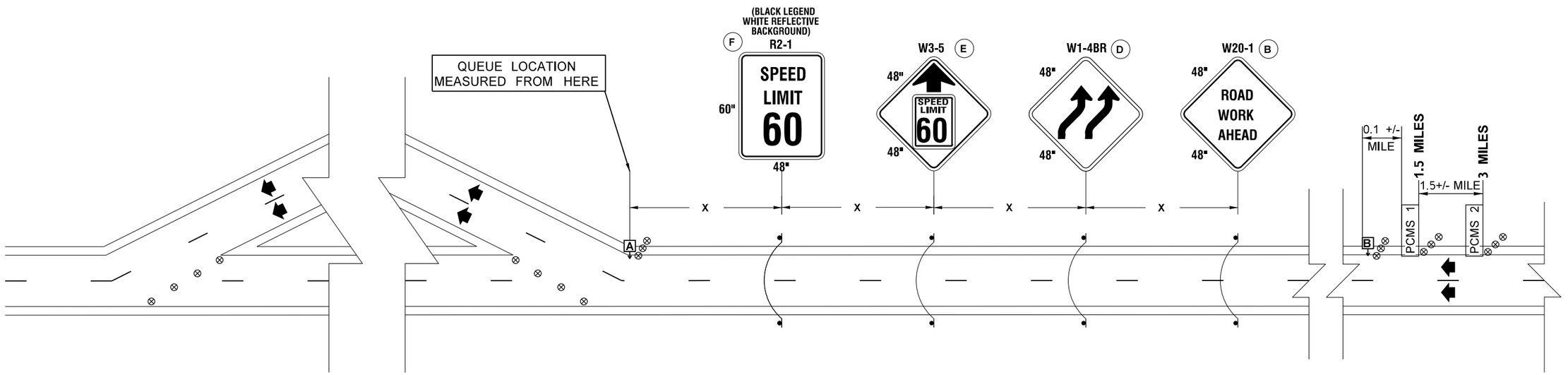
ADJUST QWS COMPONENTS AS NEEDED TO AVOID CONFLICTS WITH TRAFFIC CONTROL DEVICES, NARROW SHOULDERS, RAMPS, OR TO MAINTAIN VISIBILITY OF SEQUENTIAL ARROW SIGN.

IN THE EVENT OF A SYSTEM FAILURE, SEE SPECIAL PROVISIONS OR RFP "QUEUE WARNING SYSTEM FAILURE PROTOCOL".

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.										

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
60	40	40

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ± (OR AS PER MUTCD)
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.		



FREEWAY (2 LANES): QUEUE WARNING SYSTEM FOR WESTBOUND LANE SHIFT

NOTES:

1. THIS QUEUE WARNING SYSTEM PLAN IS USED IN CONJUNCTION WITH A 2-LANE FREEWAY LANE SHIFT PLAN.
2. IF FEASIBLE, AVOID PLACING LANE CLOSURE OR LANE SHIFT TAPERS WITHIN OR IMMEDIATELY FOLLOWING HORIZONTAL CURVES.
3. CONTACT WSDOT COMMERCIAL VEHICLE SERVICES AT LEAST 7 DAYS IN ADVANCE OF ROADWAY WIDTH RESTRICTIONS.
4. COVER ALL CONFLICTING SIGNAGE PER STANDARD SPEC 8-21.3.
5. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
6. **BICYCLES PROHIBITED THROUGH WORK ZONE**; CONSIDER PROVIDING DETOUR, ALTERNATIVE ROUTE, OR SHUTTLE IN HIGH-USE LOCATIONS PERMITTING PERMANENT BICYCLE ACCESS.

LEGEND

- SIGN LOCATION
- TRAFFIC SAFETY DRUM
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- # — QWS TRAFFIC SENSOR

NOT TO SCALE

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\410-WZTCPlan\XL5987_PS_TC.dgn			
TIME	6:44:08 AM			
DATE	3/22/2022			
PLOTTED BY	McLaneA			
DESIGNED BY	S. SIGSWORTH			
ENTERED BY	J. RICHARDSON			
CHECKED BY	B. THOMAS			
PROJ. ENGR.	B. HOOKER			
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY

REGION NO.	STATE
10	WASH

JOB NUMBER 22Y001

CONTRACT NO.

FED.AID PROJ.NO. NHPP-0902(454)

LOCATION NO.

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

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I-90
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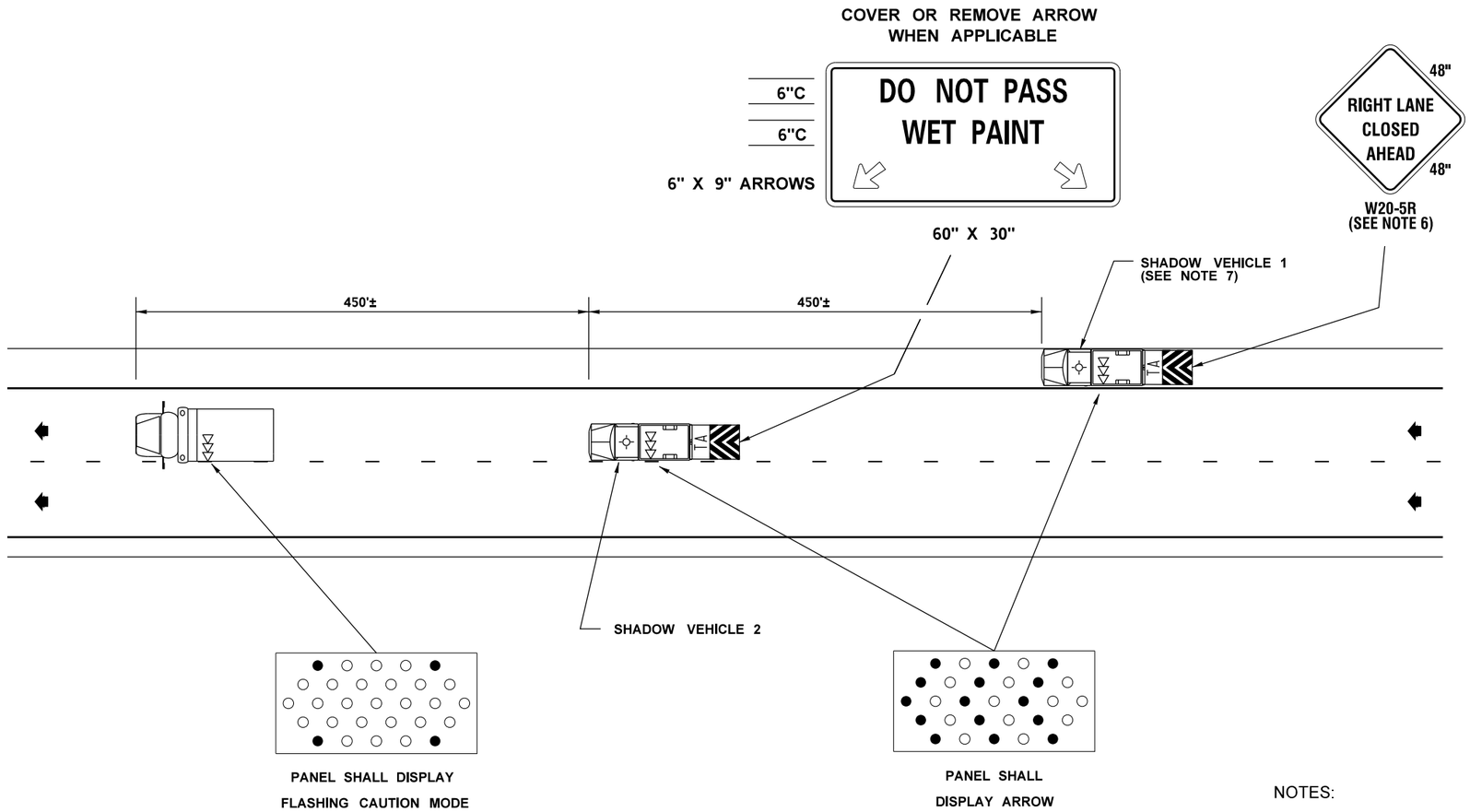
TRAFFIC CONTROL PLAN

Plot 9

PLAN REF NO TC9

SHEET 105 OF 108 SHEETS



LEGEND

SEQUENTIAL ARROW SIGN - TYPE C

SHADOW VEHICLE WITH TRANSPORTABLE ATTENUATOR

STRIPER

STRIPING OPERATIONS

FOR TWO-LANE AND THREE-LANE ONE-WAY TRAFFIC
APPROPRIATE ADJUSTMENTS TO SIGNS AND VEHICLE PLACEMENT
SHALL BE MADE FOR LEFT LANE CLOSURE

NOT TO SCALE

NOTES:

1. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
2. VEHICLES USED FOR THESE OPERATIONS SHALL BE MADE HIGHLY VISIBLE WITH APPROPRIATE EQUIPMENT, SUCH AS FLASHING LIGHTS, ROTATING BEACONS AND FLAGS.
3. ALL VEHICLES SHALL HAVE RADIO COMMUNICATION WITH EACH OTHER.
4. EACH SHADOW VEHICLE TO STAY WITHIN SIGHT OF STRIPER AND OTHER SHADOW VEHICLES AT ALL TIMES.
5. USE ADDITIONAL SHADOW VEHICLES AS REQUIRED BY THE ENGINEER.
6. SIGN SHALL READ "LEFT LANE CLOSED AHEAD" OR "RIGHT LANE CLOSED AHEAD" AS APPROPRIATE.
7. SHADOW VEHICLE 1 SHALL DRIVE ON SHOULDER WHENEVER POSSIBLE.
8. SEE SPECIAL PROVISION "CONSTRUCTION UNDER TRAFFIC" FOR WORK HOUR RESTRICTIONS.

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\410-WZTCPlan\XL5987_PS_TC.dgn			
TIME	6:44:24 AM			
DATE	3/22/2022			
PLOTTED BY	McLaneA			
DESIGNED BY	S. SIGSWORTH			
ENTERED BY	J. RICHARDSON			
CHECKED BY	B. THOMAS			
PROJ. ENGR.	B. HOOKER			
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 22Y001
CONTRACT NO.
FED.AID PROJ.NO. NHPP-0902(454)
LOCATION NO.

P.E. STAMP BOX — DATE
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TRAFFIC CONTROL PLAN

Plot 10
PLAN REF NO TC10
SHEET 106 OF 108 SHEETS

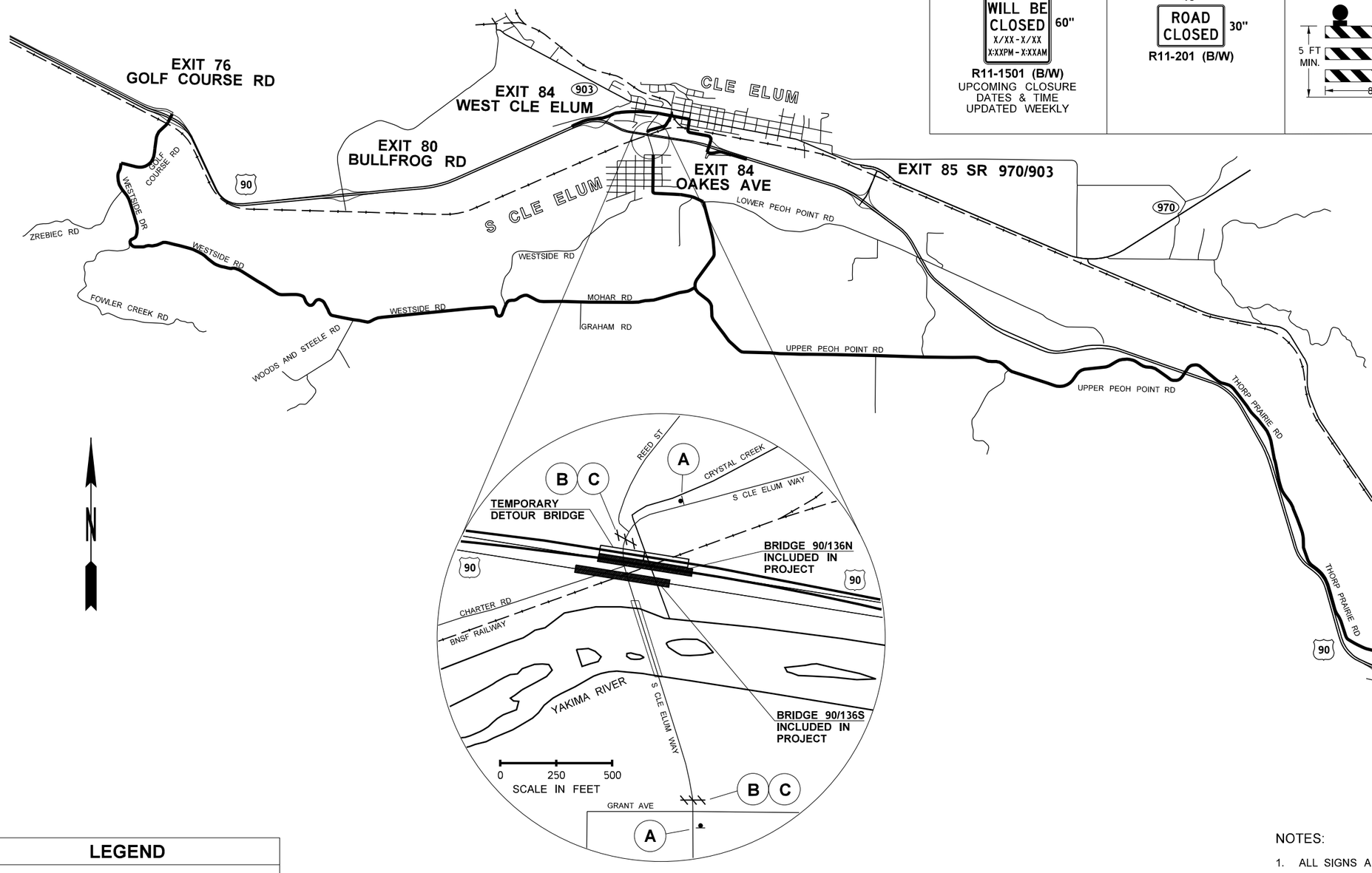
T.20N. R.15E. W.M.

A	2 REQUIRED	B	2 REQUIRED	C	2 REQUIRED

48"
ROAD WILL BE CLOSED X/XX - X/XX X:XXPM - X:XXAM
60"
R11-1501 (B/W)
UPCOMING CLOSURE DATES & TIME UPDATED WEEKLY

48"
ROAD CLOSED
30"
R11-201 (B/W)

ROAD CLOSED
MOUNT SIGN ON TOP RAIL OF BARRICADE
45°
5 FT MIN.
8 FT
TYPE III BARRICADE W / TYPE A WARNING LIGHT (L & R)



LEGEND

- TEMPORARY SIGN LOCATION
- TYPE III BARRICADE

NOTES:

1. ALL SIGNS ARE CLASS "B" UNLESS OTHERWISE NOTED.
2. SEE SPECIAL PROVISION "CONSTRUCTION UNDER TRAFFIC" FOR WORK HOUR RESTRICTIONS.

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\410-WZTCPlan\XL5987_PS_DU.dgn			
TIME	9:28:15 AM			
DATE	3/25/2022			
PLOTTED BY	thomasb			
DESIGNED BY	S. SIGSWORTH			
ENTERED BY	C. HOLMAN			
CHECKED BY	B. THOMAS			
PROJ. ENGR.	B. HOOKER			
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY

REGION NO. 10 | STATE WASH
JOB NUMBER 22Y001
CONTRACT NO.
FED.AID PROJ.NO. NHPP-0902(454)
LOCATION NO.

ROBBY E.S. HOOKER — STATE OF WASHINGTON — 19201 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

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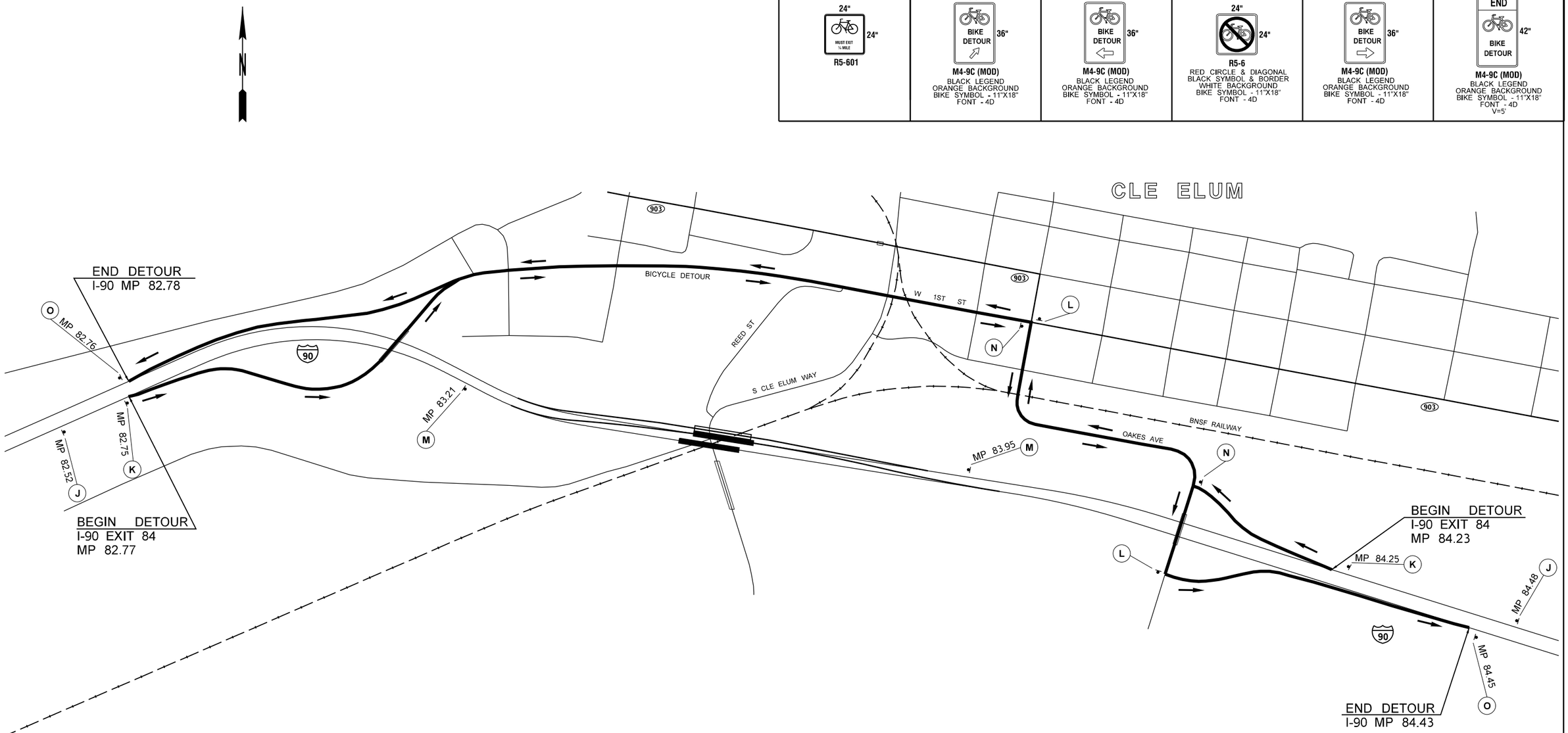
DETOUR PLAN

Plot 1
PLAN REF NO DU1
SHEET 107 OF 108 SHEETS

J 2 REQUIRED	K 2 REQUIRED	L 2 REQUIRED	M 2 REQUIRED	N 2 REQUIRED	O 2 REQUIRED
24" MUST EXIT ¼ MILE 24" **R5-601**	24" BIKE DETOUR 36" **M4-9C (MOD)** BLACK LEGEND ORANGE BACKGROUND BIKE SYMBOL - 11"X18" FONT - 4D	24" BIKE DETOUR 36" **M4-9C (MOD)** BLACK LEGEND ORANGE BACKGROUND BIKE SYMBOL - 11"X18" FONT - 4D	24" 24" **R5-6** RED CIRCLE & DIAGONAL BLACK SYMBOL & BORDER WHITE BACKGROUND BIKE SYMBOL - 11"X18" FONT - 4D	24" BIKE DETOUR 36" **M4-9C (MOD)** BLACK LEGEND ORANGE BACKGROUND BIKE SYMBOL - 11"X18" FONT - 4D	24" END BIKE DETOUR 42" **M4-9C (MOD)** BLACK LEGEND ORANGE BACKGROUND BIKE SYMBOL - 11"X18" FONT - 4D V=5'



NOTES:

1. ALL CLASS A SIGNS WILL BE STAKED BY THE ENGINEER.
2. SIGNS SHALL BE FABRICATED IN ACCORDANCE WITH THE SIGN FABRICATION MANUAL.

NOT TO SCALE

LEGEND

- CLASS A SIGN LOCATION
- (?) CONSTRUCTION SIGN NOTE

FILE NAME	K:\452205\090\08353_S Cle Elum Rd Bridge EB\Design_CAD_Sheets\410-WZTCPlan\XL5987_PS_CS.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. NHPP-0902(454)	Plot 2
TIME	9:25:53 AM							PLAN REF NO BD1
DATE	3/25/2022							
PLOTTED BY	thomasb				JOB NUMBER 22Y001			
DESIGNED BY	S. SIGSWORTH							SHEET 108 OF 108 SHEETS
ENTERED BY	J. RICHARDSON							
CHECKED BY	B. THOMAS				CONTRACT NO.		LOCATION NO.	
PROJ. ENGR.	B. HOOKER							
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY				

ROBBY E.S. HOOKER — STATE OF WASHINGTON — 36201 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

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BICYCLE DETOUR PLAN